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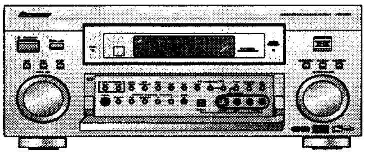
PION-06060

Service Manual


VSX-D2011-S

ORDER NO.
RRV2661

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-D2011-S
VSX-D1011-S
VSX-D1011-K

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Porew Requirement	The voltage can be converted by the following method.
VSX-D2011-S	HYXJI	AC220-230V	AC240V, *
VSX-D1011-S	HYXJI	AC220-230V	AC240V, *
VSX-D1011-K	HYXJI	AC220-230V	AC240V, *

***:Alter the wiring of the power-supply block at the primary winding of Power transformer referring to the Line Voltage Selection described in Service Manual.**

For details, refer to "Important symbols for good services" .

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SAFTY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 – Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

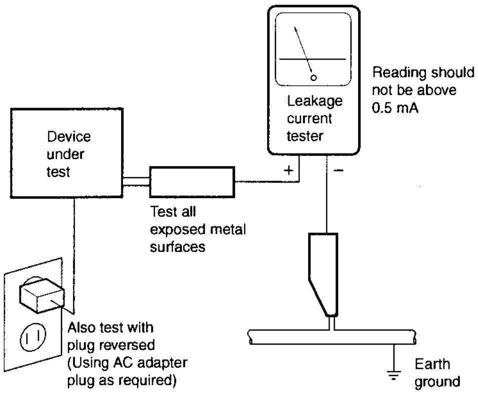
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.


Reading should not be above 0.5 mA
Leakage current tester
Device under test
+
–
Test all exposed metal surfaces
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

[Important symbols for good services]
In this manual, the symbols shown-below indicate that adjustments, settings or cleaning should be made securely.
When you find the procedures bearing any of the symbols, be sure to fulfill them:

1. Product safety

You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.

2. Adjustments

To keep the original performances of the product, optimum adjustments or specification confirmation is indispensable. In accordance with the procedures or instructions described in this manual, adjustments should be performed.

3. Cleaning

For optical pickups, tape-deck heads, lenses and mirrors used in projection monitors, and other parts requiring cleaning, proper cleaning should be performed to restore their performances.

4. Shipping mode and shipping screws

To protect the product from damages or failures that may be caused during transit, the shipping mode should be set or the shipping screws should be installed before shipping out in accordance with this manual, if necessary.

5. Lubricants, glues, and replacement parts

Appropriately applying grease or glue can maintain the product performances. But improper lubrication or applying glue may lead to failures or troubles in the product. By following the instructions in this manual, be sure to apply the prescribed grease or glue to proper portions by the appropriate amount.For replacement parts or tools, the prescribed ones should be used.

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1. SPECIFICATIONS

Amplifier Section

Continuous Power Output (DIN)	
FRONT	100 W + 100 W (DIN 1 kHz, THD 1 %, 8 Ω)
CENTER	100 W (DIN 1 kHz, THD 1 %, 8 Ω)
SURROUND	100 W + 100 W (DIN 1 kHz, THD 1 %, 8 Ω)
SURROUND BACK	100 W + 100 W (DIN 1 kHz, THD 1 %, 8 Ω)
Rated Power Output	100 W + 100 W (20 Hz – 20 kHz, 0.09 %, 8 Ω)
Input (Sensitivity/Impedance)	
PHONO MM (VSX-D2011)	4.7 mV/47 kΩ
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD, CD-R/TAPE 1, MD/TAPE 2	335 mV/47 kΩ
Frequency Response	
PHONO MM (VSX-D2011)	20 Hz to 20,000 Hz ± 0.3 dB
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD, CD-R/TAPE 1, MD/TAPE 2	5 Hz to 100,000 Hz $^{+0}_{-3}$ dB
Output (Level/Impedance)	
VCR 1/DVR REC, VCR 2 REC, CD-R/TAPE 1 REC, MD/TAPE 2 REC	335 mV/2.2 kΩ
Tone Control	
BASS	± 6 dB (100 Hz)
TREBLE	± 6 dB (10 kHz)
LOUDNESS	+4/+2 dB (100 Hz/10 kHz) (at volume position -40dB)
Signal-to-Noise Ratio (IHF, short circuited, A network)	
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD, CD-R/TAPE 1, MD/TAPE 2, MULTI CH IN	101 dB
Signal-to-Noise Ratio [DIN (Continuous rated power output/50 mW)]	
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD, CD-R/TAPE 1, MD/TAPE 2	92/65 dB

VIDEO Section (S jack)

Input (Sensitivity/Impedance)	
VCR 1/DVR, VCR 2, VIDEO, DVD/LD, TV/SAT	
Luminance signal (Y)	1 Vp-p/75 Ω
Chrominance signal (C)	0.286 Vp-p/75 Ω
Output (Level/Impedance)	
VCR 1/DVR, VCR 2, MONITOR OUT	
Luminance signal (Y)	1 Vp-p/75 Ω
Chrominance signal (C)	0.286 Vp-p/75 Ω
Frequency Response	
VCR 1/DVR, VCR 2, VIDEO, DVD/LD, TV/SAT	
Luminance signal (Y)	5 Hz to 10 MHz $^{+0}_{-3}$dB
Signal-to-Noise Ratio	
Luminance signal (Y)	65 dB

Component Video Section (VSX-D2011)

Input (Sensitivity)	
Y	1 Vp-p/75 Ω
PB/PR	0.7 V/75 Ω
Output (Level/Impedance)	
Y	1 Vp-p/75 Ω
PB/PR	0.7 V/75 Ω
Frequency Response	
Y	5 Hz to 40 MHz $^{+0}_{-3}$dB
PB/PR	5 Hz to 40 MHz $^{+0}_{-3}$dB

VIDEO Section (Composite)

Input (Sensitivity/Impedance)	
VCR 1/DVR, VCR 2, VIDEO, DVD/LD, TV/SAT	1 Vp-p/75 Ω
Output (Level/Impedance)	
VCR 1/DVR, VCR 2, MONITOR OUT, MONITOR OUT2	1 Vp-p/75 Ω
Frequency Response	
VCR 1/DVR, VCR 2, TV/SAT, DVD/LD VIDEO→MONITOR OUT,	5 Hz to 10 MHz $^{+0}_{-3}$dB
Signal-to-Noise Ratio	65 dB

FM Tuner Section

Frequency Range	87.5 MHz to 108 MHz
Usable Sensitivity	Mono: 15.2 dBf, IHF (1.6 μV/75 Ω)
50 dB Quieting Sensitivity	Mono: 20.2 dBf Stereo: 41.2 dBf
Sensitivity (DIN)	Mono: 1.1 μV (S/N 26 dB) Stereo: 50 μV (S/N 46 dB)
Signal-to-Noise Ratio	Mono: 76 dB (at 85 dBf) Stereo: 72 dB (at 85 dBf)
Signal-to-Noise Ratio (DIN)	Mono: 62 dB Stereo: 58 dB
Distortion	Stereo: 0.6 % (1 kHz)
Alternate Channel Selectivity	70 dB (400 kHz)
Stereo Separation	40 dB (1 kHz)
Frequency Response	30 Hz to 15 kHz (± 1 dB)
Antenna Input	75 Ω unbalanced

AM Tuner Section

Frequency Range	531 kHz to 1,602 kHz
Sensitivity (IHF, Loop antenna)	350 μV/m
Selectivity	30 dB
Signal-to-Noise Ratio	50 dB
Antenna	Loop antenna

Miscellaneous

Power Requirements	AC 220 - 230 V, 50/60 Hz
Power Consumption	600 W
Power Consumption in Standby mode	0.7 W
AC Outlets	
SWITCHED	100 W (0.8A) MAX.
Dimensions	420 (W) × 188 (H) × 464 (D) mm
Weight (without package) (VSX-D2011)	19.6 kg
Weight (without package) (VSX-D1011)	18.2 kg

Furnished Parts

FM Wire Antenna	1
AM Loop Antenna	1
"AA" IEC LR6 batteries	4
Remote Control Unit	1
Microphone for Auto Surround Sound Setup	1
Microphone Stand for Auto Surround Sound Setup	1
Operating Instructions	1

NOTE:
Specifications and the design are subject to possible modifications without notice, due to improvements.

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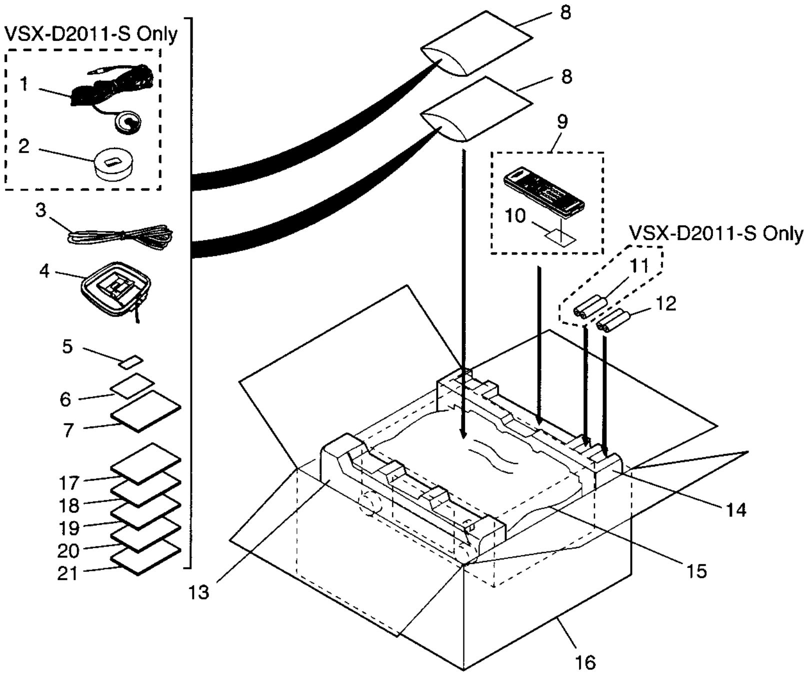
"DTS", "DTS-ES Extended Surround" and "Neo:6" are trademarks of Digital Theater Systems, Inc.

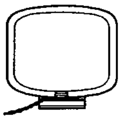
2. EXPLODED VIEWS AND PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on product are used for disassembly.*
- *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)*

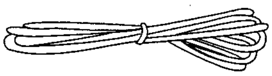
2.1 PACKING



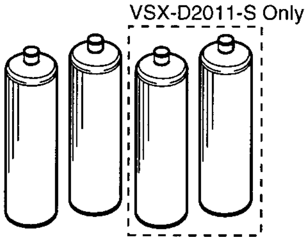
● Accessories



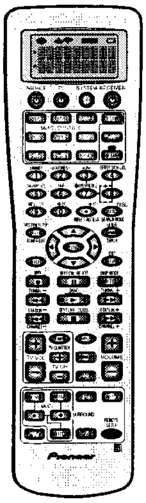
AM Loop Antenna
(ATB7009)



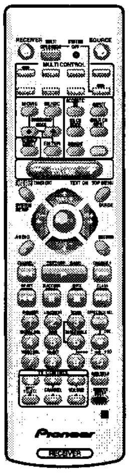
FM Wire Antenna
(ADH7030)



Dry Cell Battery
(LR6, AA)

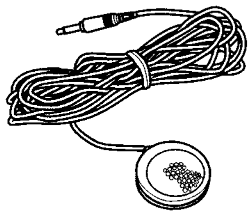


Remote Control Unit
(VSX-D2011 : AXD7326)

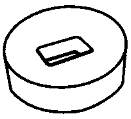


Remote Control Unit
(VSX-D1011 : AXD7329)

VSX-D2011-S Only



Microphone for Auto
Surround Sound Setup
(APM7004)



Microphone Stand for Auto
Surround Sound Setup
(AEB7269)

PACKING parts List

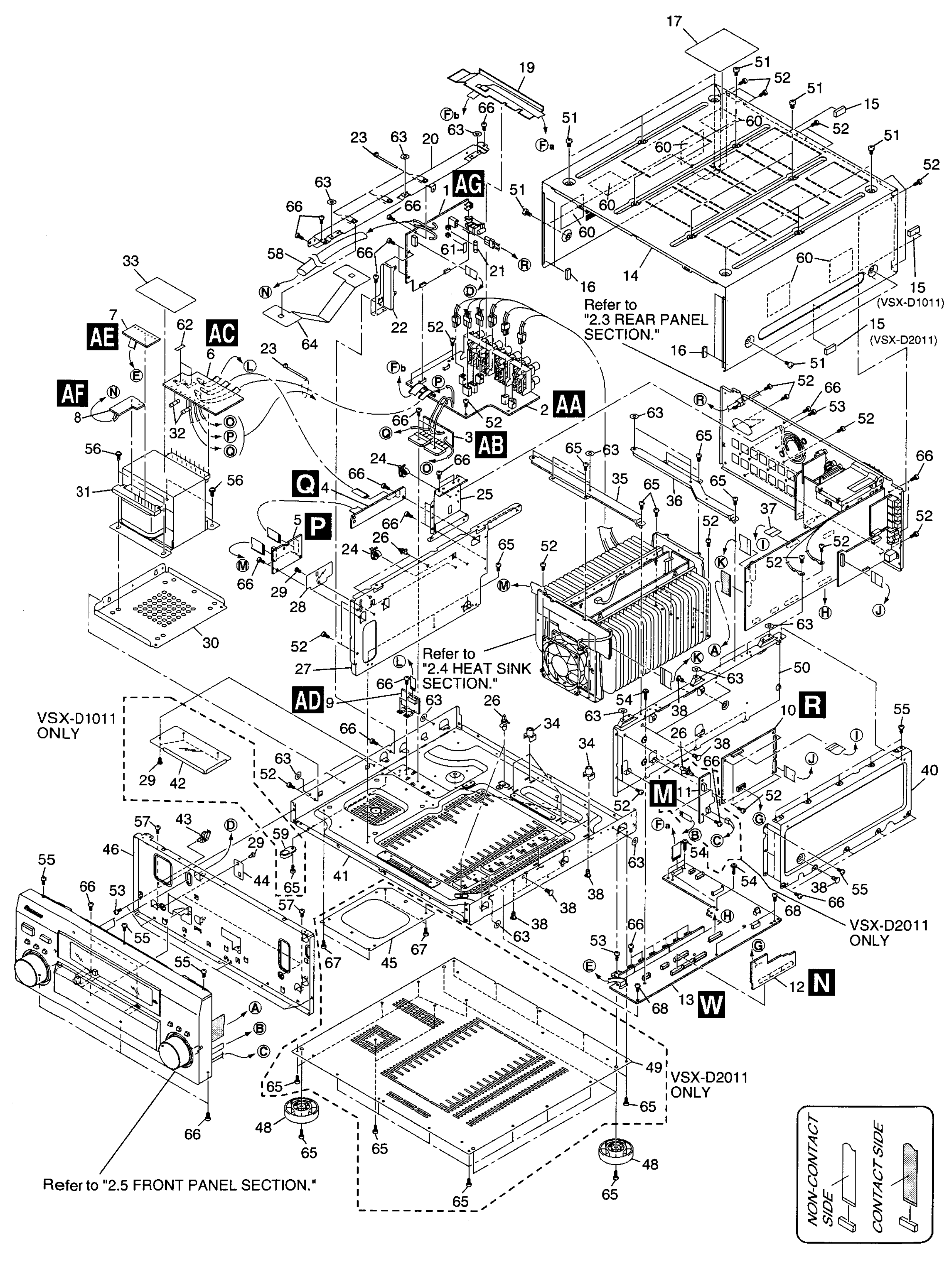
Mark	No.	Description	Part No.
	1	MIC Assy	See Contrast table (2)
	2	MIC Stand 45	See Contrast table (2)
	3	FM Wire Antenna	ADH7030
	4	AM Loop Antenna	ATB7009
	5	Caution Sheet SP,E	ARM7056
NSP	6	Warranty Card	ARY7022
	7	Operating Instructions (English)	See Contrast table (2)
NSP	8	Polyetylene Bag (0.03*230*340)	Z21-038
	9	Remote Control Unit	See Contrast table (2)
	10	Battery Cover	See Contrast table (2)
NSP	11	Alkaline Dry Cell Battery (LR6, AA)	See Contrast table (2)
NSP	12	Alkaline Dry Cell Battery (LR6, AA)	VEM1021
	13	Front Pad 45	AHA7374
	14	Rear Pad 45	AHA7375
	15	Packing Sheet	RHC1023
	16	Packing Case	See Contrast table (2)
	17	Operating Instructions (French)	See Contrast table (2)
	18	Operating Instructions (German)	See Contrast table (2)
	19	Operating Instructions (Italian)	See Contrast table (2)
	20	Operating Instructions (Spanish)	See Contrast table (2)
	21	Operating Instructions (Dutch)	See Contrast table (2)

(2) CONTRAST TABLE

VSX-D2011-S/HYXJI, VSX-D1011-S/HYXJI and VSX-D1011-K/HYXJI are constructed the same except for the following:

Mark	NO	Symbol and Description	VSX-D2011-S/ HYXJI	VSX-D1011-S/ HYXJI	VSX-D1011-K/ HYXJI
NSP	1	MIC Assy	APM7004	Not used	Not used
	2	MIC Stand 45	AEB7269	Not used	Not used
	7	Operating Instructions (English)	ARB7263	ARB7264	ARB7264
	9	Remote Control Unit	AXD7326	AXD7329	AXD7329
	10	Battery Cover	AZN7896	AZN7424	AZN7424
	11	Alkaline Dry Cell Battery (LR6, AA)	VEM1021	Not used	Not used
	16	Packing Case	AHD8079	AHD8081	AHD8080
	17	Operating Instructions (French)	ARC7388	ARC7395	ARC7395
	18	Operating Instructions (German)	ARC7389	ARC7396	ARC7396
	19	Operating Instructions (Italian)	ARC7390	ARC7397	ARC7397
	20	Operating Instructions (Spanish)	ARC7391	ARC7398	ARC7398
	21	Operating Instructions (Dutch)	ARC7392	ARC7399	ARC7399

2.2 EXTERIOR SECTION



17
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Refer to "2.3 REAR PANEL SECTION."
15 (VSX-D1011)
15 (VSX-D2011)
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Refer to "2.4 HEAT SINK SECTION."
VSX-D1011 ONLY
VSX-D2011 ONLY
Refer to "2.5 FRONT PANEL SECTION."
NON-CONTACT SIDE
CONTACT SIDE

EXTERIOR SECTION parts List

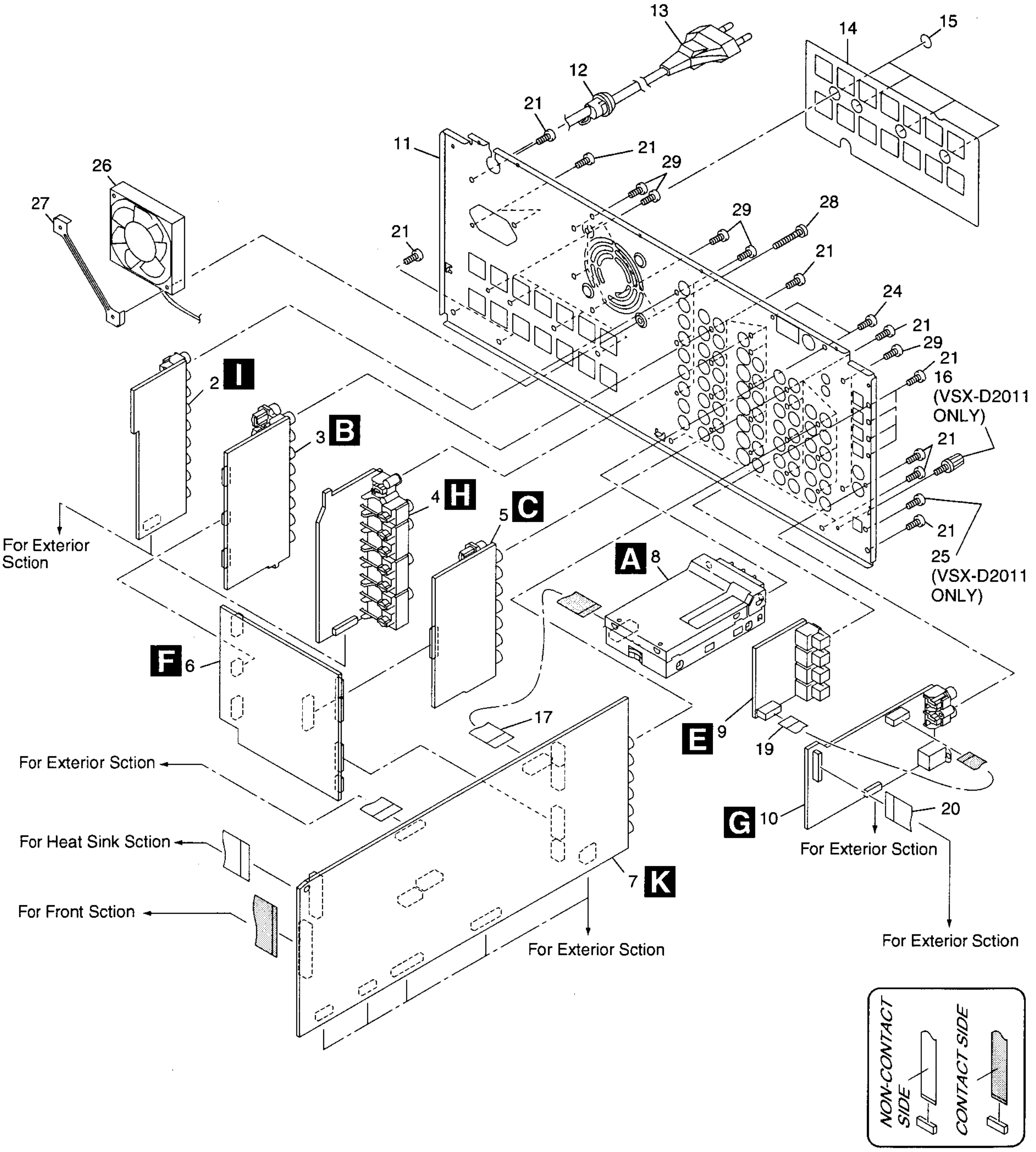
Mark	No.	Description	Part No.
	1	PRIMARY Assy	AWX7998
	2	SP/PS Assy	See Contrast table (2)
	3	DIODE Assy	See Contrast table (2)
	4	FAN CONNECTION Assy	AWX8005
	5	FAN DRIVE Assy	AWX8135
	6	TRANS 2-1 Assy	AWX7979
	7	TRANS 2-2 Assy	AWX7970
	8	TRANS 1 Assy	AWX7969
	9	VH TR Assy	AWX8018
	10	DSP ASSY	AWX8016
	11	MIC AMP Assy	See Contrast table (2)
	12	DSP CONNECTION Assy	AWX8024
	13	REGULATOR Assy	AWX8020
	14	Bonnet Case	See Contrast table (2)
	15	Spacer 45A	AEB7263
	16	Spacer 45B	AEB7264
	17	Label (DD/DTS/THX)	ARW7177
	18	••••••	
	19	Barrier 45	AEC7444
	20	Left Beam 45	ANG7401
⚠	21	FU1 Fuse (4A)	REK-106
	22	Primary Angle 35	ANG7301
NSP	23	Binder	ZCA-BK1
NSP	24	Mini Clamp	VEC1597
	25	Fan Box 45	ANG7413
	26	Locking Card Spacer	PNW2917
	27	Trans Shield 45	ANG7400
	28	Styling Sheet B	AEC7437
	29	Push Rivet	AEC7370
	30	Trans Frame 45	ANG7399
⚠	31	T1 Power Transformer	ATS7329
⚠	32	FU4,FU5 Fuse (2.5A)	REK1026
NSP	33	Trans Label 45	AAX7957
	34	PCB Mold	AMR2534
	35	Bridge Frame 45F	ANG7409
	36	Bridge Frame 45R	ANG7410
	37	J7 21P FFC/60V	ADD7355
	38	Card Spacer	DNK2769
	39	••••••	
	40	DSP Shield 45B	ANG7403
NSP	41	Under Base	See Contrast table (2)
	42	Screw Cover 45A	See Contrast table (2)
NSP	43	Wire Saddle	DEC1450
	44	Styling Sheet	AEC7413
	45	Stabilizer 45	See Contrast table (2)
NSP	46	Panel Stay 45	AND7047
	47	••••••	
	48	Insulator	See Contrast table (2)
	49	Bottom Plate 45	See Contrast table (2)
	50	DSP Shield 45A	ANG7402
	51	Screw	See Contrast table (2)
	52	Screw	BBZ30P080FZK
	53	Screw	BBZ30P100FCC
	54	Screw	IBZ30P150FCC
	55	Screw	BBT30P080FCC
	56	Screw	ABA7066
	57	Screw	ABA7009
	58	UL Tube	ADN7007
	59	Screw Cover See "2.5 FRONT PANEL SECTION" No. 19-3	
	60	Bonnet Sheet	See Contrast table (2)
NSP	61	Fuse Card	AAX7099
NSP	62	Fuse Card	AAX7277
	63	Spacer Circle	See Contrast table (2)
	64	FMEA Spacer	AEC7446
	65	Screw	BBZ30P080FCC
	66	Screw	IBZ30P080FCC
	67	Screw	IBZ30P100FCC

(2) CONTRAST TABLE

VSX-D2011-S/HYXJI, VSX-D1011-S/HYXJI and VSX-D1011-K/HYXJI are constructed the same except for the following:

Mark	NO	Symbol and Description	VSX-D2011-S/ HYXJI	VSX-D1011-S/ HYXJI	VSX-D1011-K/ HYXJI
NSP	2	SP/PS Assy	AWX8039	AWX8040	AWX8040
	3	DIODE Assy	AWX8017	AWX8038	AWX8038
	11	MIC AMP Assy	AWX8004	Not used	Not used
	14	Bonnet Case	AZN7899	AZN7899	AZN7897
	41	Under Base	ANA7138	ANA7144	ANA7144
	42	Screw Cover 45A	Not used	AEC7414	AEC7414
	45	Stabilizer 45	ANG7408	Not used	Not used
	48	Insulator	VXA2368	PNW2766	PNW2766
	49	Bottom Plate 45	ANF7031	Not used	Not used
	51	Screw	BBZ40P080FCC	BBZ40P080FCC	BBZ40P080FZK
	60	Bonnet Sheet	AEB7265	Not used	Not used
	63	Spacer Circle	AEC7330	Not used	Not used

2.3 REAR PANEL SECTION


13
14
15
12
21
11
21
29
26
27
29
28
21
21
24
21
29
21
16
(VSX-D2011 ONLY)
2 I
3 B
4 H
5 C
21
21
25
(VSX-D2011 ONLY)
For Exterior Sction
A 8
F 6
17
E 9
19
For Exterior Sction
For Heat Sink Sction
G 10
20
For Exterior Sction
For Front Sction
7 K
For Exterior Sction
For Exterior Sction
NON-CONTACT SIDE
CONTACT SIDE

REAR PANEL SECTION parts List

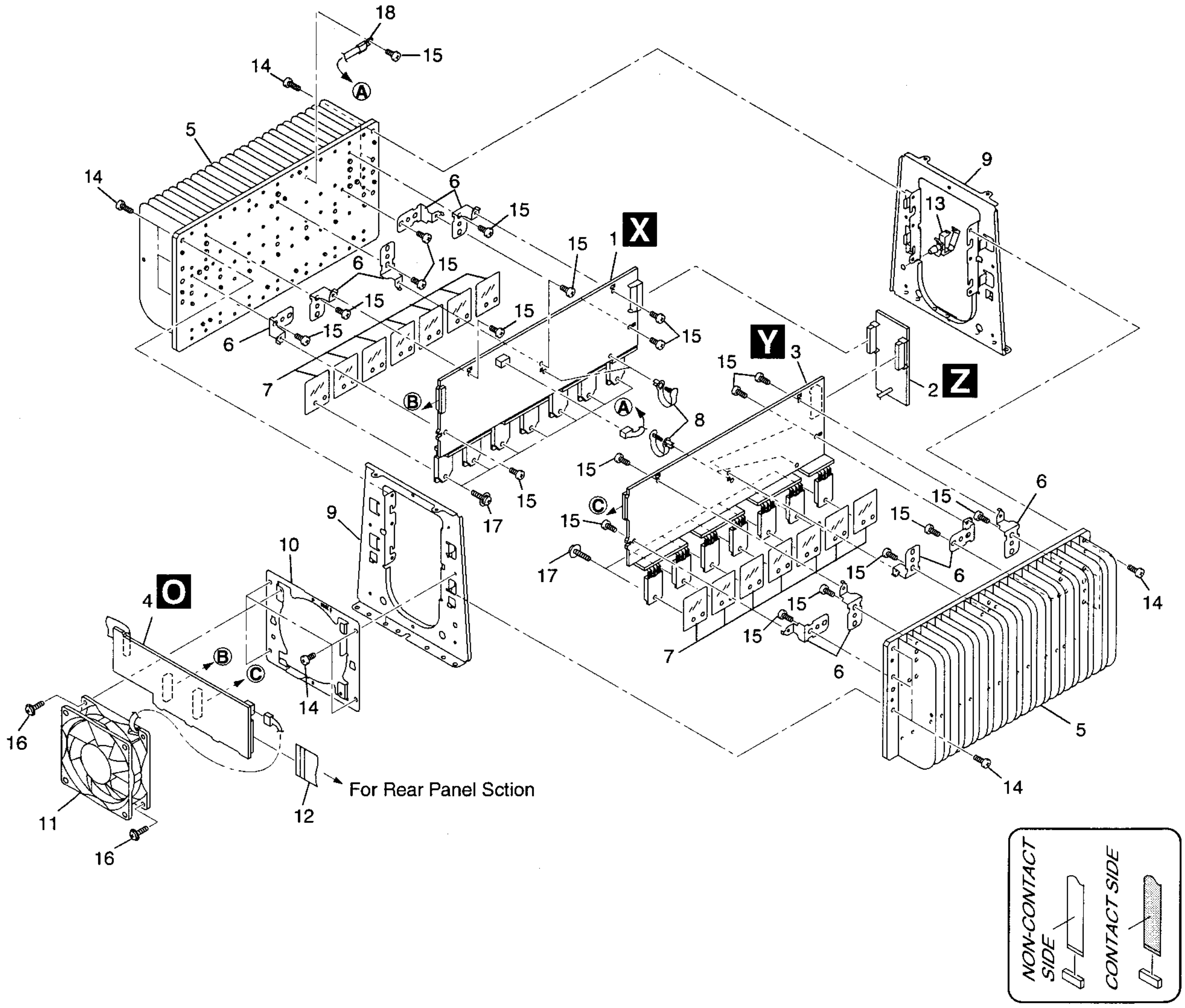
Mark	No.	Description	Part No.
	1	••••••	
	2	COMPONENT Assy	See Contrast table (2)
	3	7.1CH I/O Assy	AWX7973
	4	VIDEO Assy	See Contrast table (2)
	5	V-AUDIO IN Assy	AWX7991
	6	INPUT CONNECT Assy	AWX8041
	7	MAIN CONTROL Assy	See Contrast table (2)
	8	FM/AM TUNER Module	AXQ7232
	9	OPTICAL IN Assy	AWX7978
	10	COAXIAL IN Assy	See Contrast table (2)
	11	Rear Panel	See Contrast table (2)
	12	Cord Stopper	CM-22B
⚠	13	AC Power Cord	VDG1080
	14	Speaker Sheet	AAK8016
	15	Cushion Circle 16B	AED7052
	16	Screw with Terminal	See Contrast table (2)
	17	J8 13P FFC/60V	ADD7356
	18	••••••	
	19	J5 9P FFC/60V	ADD7353
	20	J6 20P FFC/60V	ADD7354
	21	Screw	BBZ30P080FZK
	22	Screw	IBZ30P100FCC
	23	••••••	
	24	Screw	VPZ30P080FZK
	25	Screw	See Contrast table (2)
	26	Fan Motor	AXM7020
	27	Fan Plate	ANG7153
	28	Screw	BBZ30P200FZK
	29	Screw	IBZ30P080FCC

(2) CONTRAST TABLE

VSX-D2011-S/HYXJI, VSX-D1011-S/HYXJI and VSX-D1011-K/HYXJI are constructed the same except for the following:

Mark	NO	Symbol and Description	VSX-D2011-S/ HYXJI	VSX-D1011-S/ HYXJI	VSX-D1011-K/ HYXJI
	2	COMPONENT Assy	AWX7963	Not used	Not used
	4	VIDEO Assy	AWX8001	AWX8002	AWX8002
	7	MAIN CONTROL Assy	AWX7997	AWX8010	AWX8010
	10	COAXIAL IN Assy	AWX7965	AWX8013	AWX8013
	11	Rear Panel	ANC8064	ANC8090	ANC8088
	16	Screw with Terminal	AKE-031	Not used	Not used
	25	Screw	PMZ30P060FCC	Not used	Not used

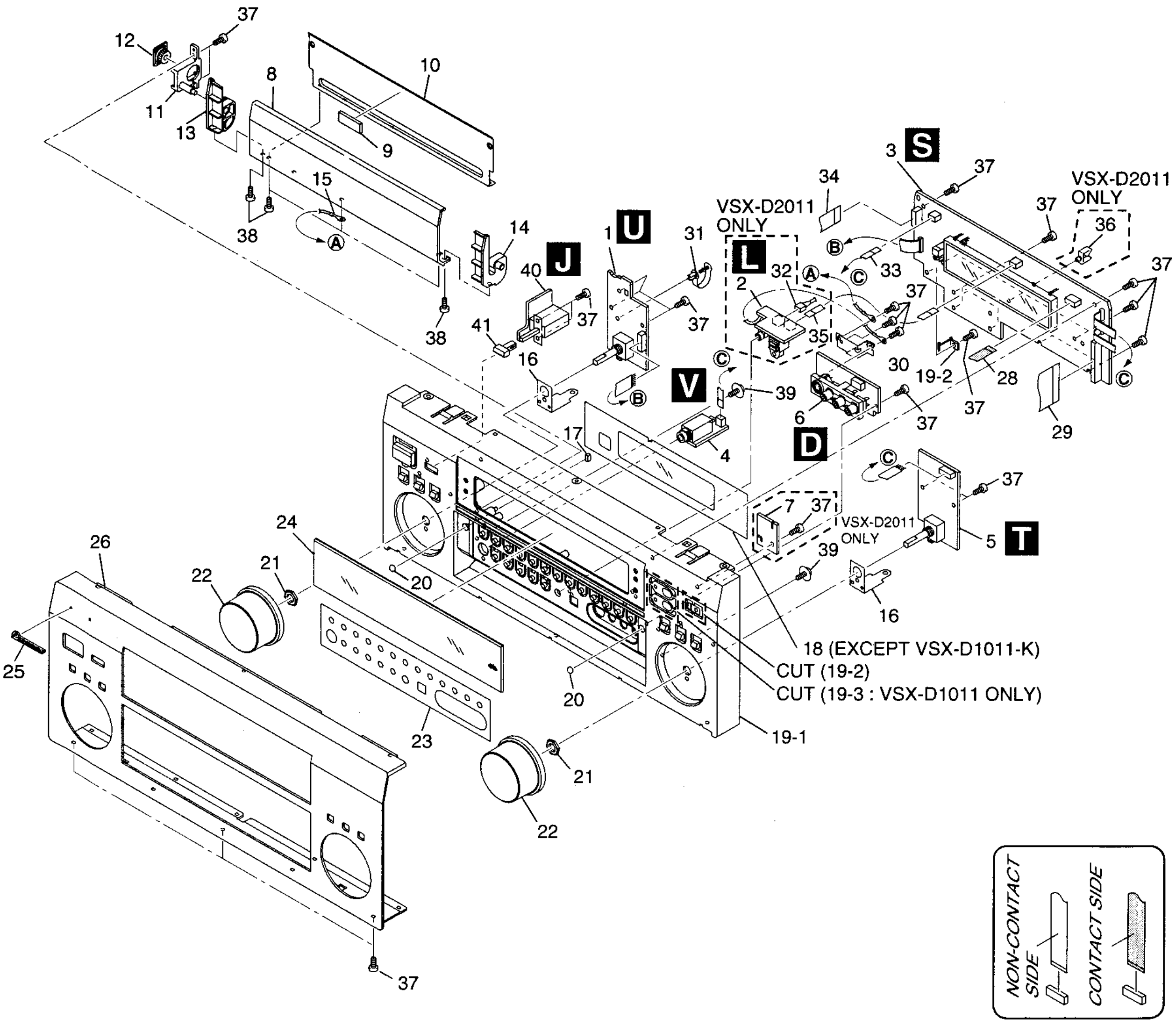
2.4 HEAT SINK SECTION


18
15
14
A
5
14
6
15
9
13
X
1
15
6
15
15
6
15
15
15
Y
3
15
2
Z
7
B
A
8
15
15
C
15
6
9
17
15
15
17
6
10
15
4
O
15
14
15
7
6
B
C
14
5
16
11
12
For Rear Panel Sction
14
16
NON-CONTACT SIDE
CONTACT SIDE

HEAT SINK SECTION parts List

Mark	No.	Description	Part No.
	1	POWER AMP-L Assy	AWX7984
	2	POWER AMP-C Assy	AWX7986
	3	POWER AMP-R Assy	AWX7985
	4	POWER AMP IN Assy	AWX7982
NSP	5	Heat Sink 45	ANH7152
	6	PCB Angle 45	ANG7406
	7	Mica Sheet 45	AEE7047
NSP	8	Speed Clamp	AEC7445
	9	H.S Angle 45	ANG7404
	10	Fan Holder 80	ANG7407
⚠	11	Fan Motor	AXM7023
	12	J14 24P FFC/60V	ADD7357
NSP	13	Wire Saddle	DEC1450
	14	Screw	BBZ30P100FCC
	15	Screw	BBZ30P080FZK
	16	Screw	BBZ30P300FMC
	17	Screw	ABA7085
⚠	18	TH1 Thermistor	AEX7004

2.5 FRONT PANEL SECTION


37
12
11
13
8
10
9
15
38
A
14
J
40
37
41
38
16
1 U
31
37
B
17
VSX-D2011 ONLY
L
2
32
35
A
C
V
39
4
34
B
33
C
37
30
19-2
6
D
37
28
37
3 S
37
37
VSX-D2011 ONLY
36
37
C
29
C
37
5 T
7
37
VSX-D2011 ONLY
39
16
18 (EXCEPT VSX-D1011-K)
CUT (19-2)
CUT (19-3 : VSX-D1011 ONLY)
19-1
26
24
21
22
20
25
23
20
21
22
37
NON-CONTACT SIDE
CONTACT SIDE

FRONT PANEL SECTION parts List

Mark	No.	Description	Part No.
	1	MULTI JOG Assy	AWX8015
	2	MIC & F.OPT IN Assy	See Contrast table (2)
	3	DISPLAY Assy	See Contrast table (2)
	4	HEADPHONE Assy	AWX7980
	5	VOLUME Assy	AWX7971
	6	FRONT IN Assy	AWX8186
	7	STYLING Assy	•••••
	8	Door	See Contrast table (2)
	9	Spacer 45A	AEB7263
	10	Door Stay	See Contrast table (2)
	11	Door Shaft 35	AMR7295
	12	Damper Assy (200)	AXA7088
	13	Door Hinge L	See Contrast table (2)
	14	Door Hinge R	See Contrast table (2)
NSP	15	Earth Lead Wire	ADH7022
	16	Earth Plate B	ANG7412
	17	Magnet 35	AMF7007
	18	FL Sheet	See Contrast table (2)
	19-1	Panel Base	See Contrast table (2)
	19-2	Magnet Holder	
	19-3	Screw Cover	
	20	Cushion Circle	See Contrast table (2)
	21	Nut	NK90FUC
	22	Rotary Knob L	See Contrast table (2)
	23	D.Sheet	See Contrast table (2)
	24	Window	See Contrast table (2)
	25	Pionner Badge B	See Contrast table (2)
	26	F.Panel	See Contrast table (2)
	27	•••••	
	28	J4 7P FFC/60V	ADD7352
	29	J1 32P FFC/60V	ADD7349
	30	Earth Plate A	ANG7411
NSP	31	Speed Clamp	AEC7445
	32	J1901 Connector Assy (3P)	See Contrast table (2)
	33	J15 3P FFC/60V	ADD7371
	34	J2 11P FFC/60V	ADD7350
	35	J3 4P FFC/60V	See Contrast table (2)
NSP	36	Wire Clip (A)	See Contrast table (2)
	37	Screw	BPZ30P10OFMC
	38	Screw	BBZ30P08OFZK
	39	Screw	ABA7009
	40	MECHA SW Assy	AWX7995
	41	Power Button	See Contrast table (2)
	42	Screw	IPZ30P100FCC

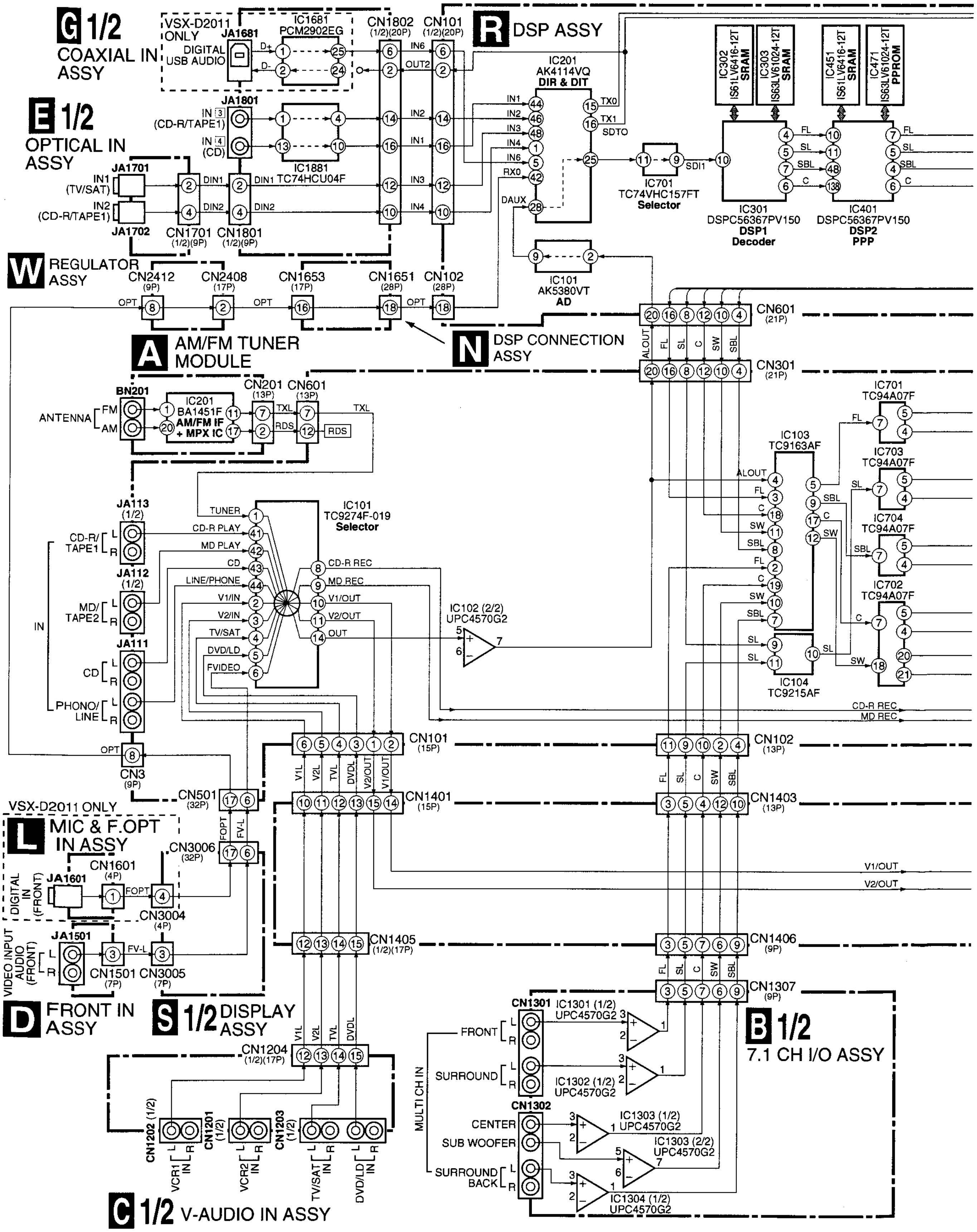
(2) CONTRAST TABLE

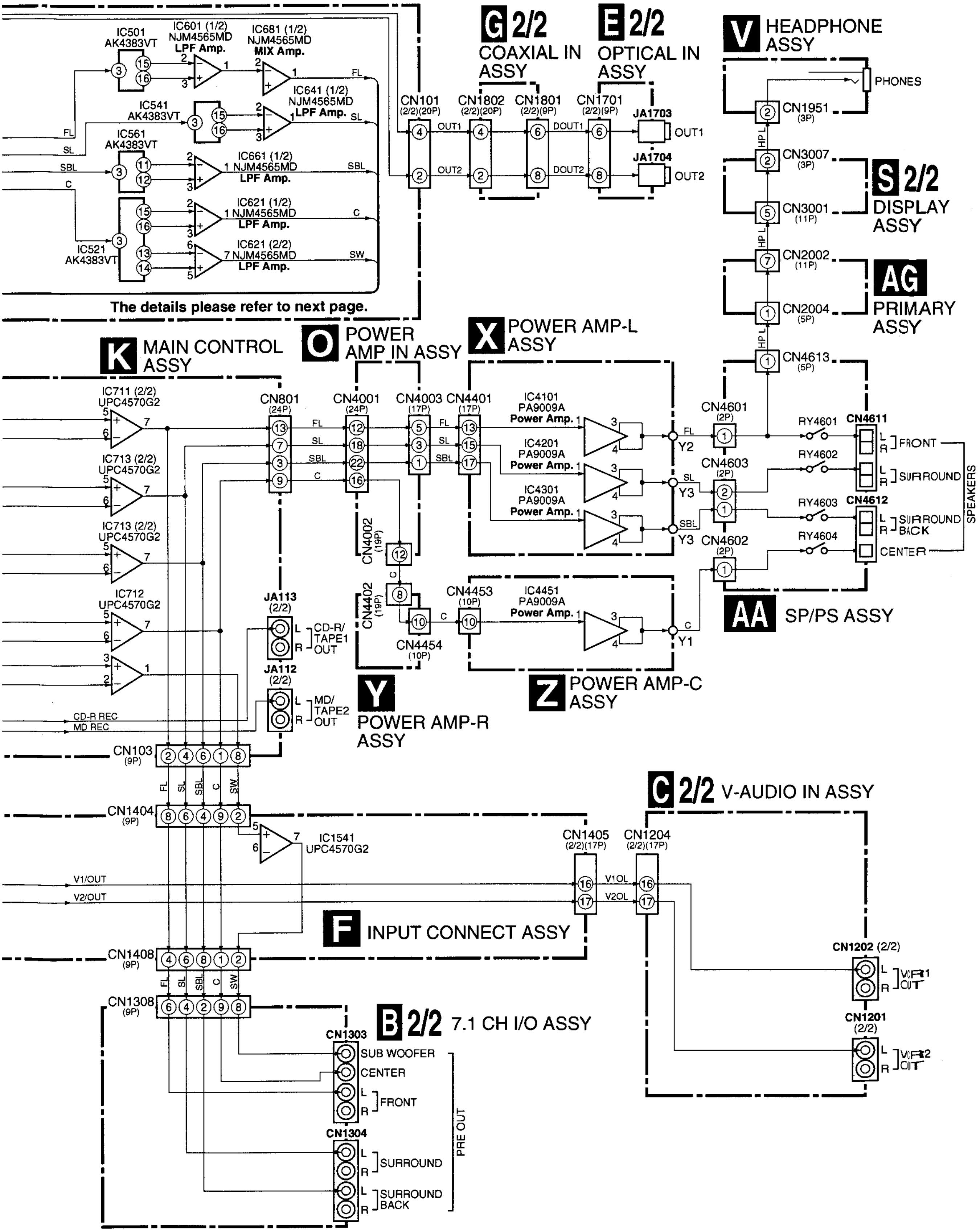
VSX-D2011-S/HYXJI, VSX-D1011-S/HYXJI and VSX-D1011-K/HYXJI are constructed the same except for the following:

Mark	NO	Symbol and Description	VSX-D2011-S/ HYXJI	VSX-D1011-S/ HYXJI	VSX-D1011-K/ HYXJI
	2	MIC & F.OPT IN Assy	AWX7981	Not used	Not used
	3	DISPLAY Assy	AWX8147	AWX8011	AWX8011
	8	Door	ANB7280	ANB7280	ANB7275
	10	Door Stay	AAH7097	AAH7097	AAH7089
	13	Door Hinge L	AMR7424	AMR7424	AMR7386
	14	Door Hinge R	AMR7425	AMR7425	AMR7387
	18	FL Sheet	AAK7956	AAK7956	Not used
	19-1	Panel Base	AMB7820	AMB7820	AMB7803
	20	Cushion Circle	AED7045	AED7045	AED7044
	22	Rotary Knob L	AAA7017	AAA7017	Not used
	22	VOL Knob	Not used	Not used	AAB7249
	23	D.Sheet	AAK8023	AAK8025	AAK8024
	24	Window	AAK8034	AAK8036	AAK8071
	25	Pionner Badge B	VAN1124	VAN1124	AAN7218
	26	F.Panel	ANB7283	ANB7285	ANB7284
	32	J1901 Connector Assy (3P)	ADE7084	Not used	Not used
	35	J3 4P FFC/60V	ADD7351	Not used	Not used
NSP	36	Wire Clip (A)	VEC1355	Not used	Not used
	41	Power Button	AAD7675	AAD7675	AAD7647

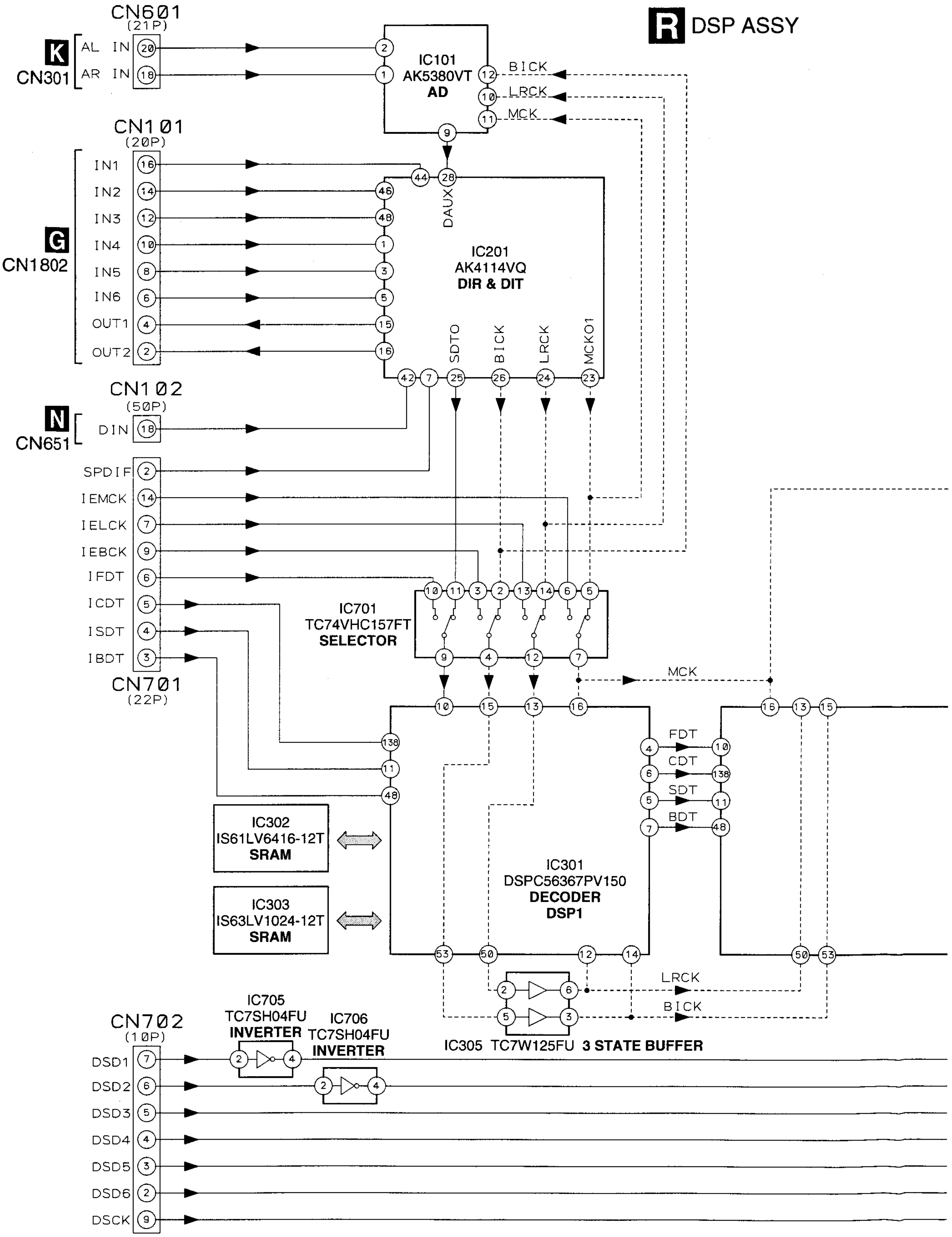
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

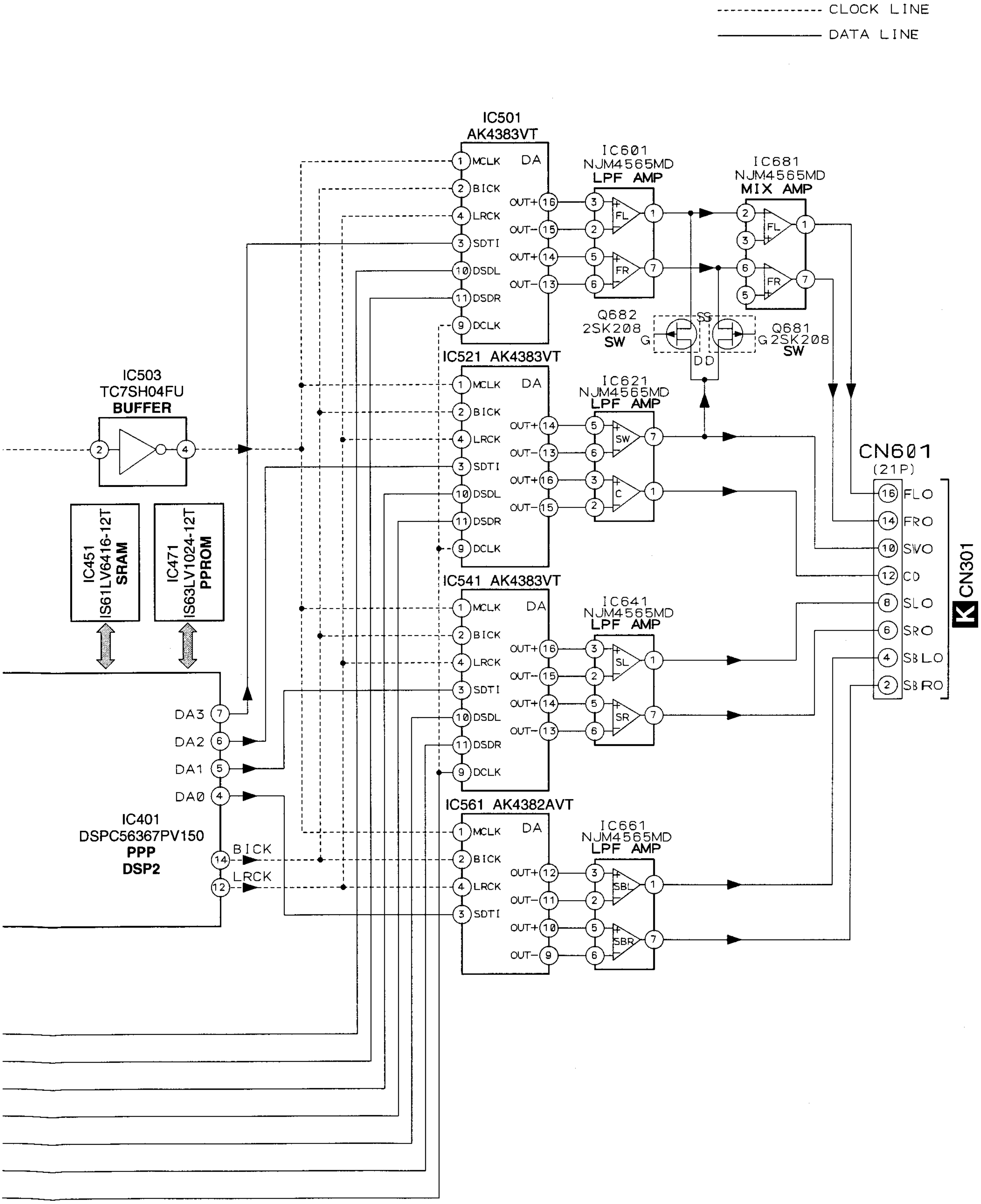
3.1 AUDIO BLOCK DIAGRAM


G 1/2 COAXIAL IN ASSY
VSX-D2011 ONLY
JA1681
DIGITAL USB AUDIO
IC1681 PCM2902EG
D+
D-
E 1/2 OPTICAL IN ASSY
JA1801
IN 3 (CD-R/TAPE1)
IN 4 (CD)
IC1881 TC74HCU04F
JA1701
IN1 (TV/SAT)
IN2 (CD-R/TAPE1)
JA1702
DIN1
DIN2
CN1701 (1/2)(9P)
CN1801 (1/2)(9P)
CN1802 (1/2)(20P)
CN101 (1/2)(20P)
IN6
OUT2
IN2
IN1
IN3
IN4
R DSP ASSY
IC201 AK4114VQ DIR & DIT
IN1
IN2
IN3
IN4
IN6
RX0
DAUX
TX0
TX1
SDTO
IC701 TC74VHC157FT Selector
SDI1
IC302 IS61LV6416-12T SRAM
IC303 IS63LV61024-12T SRAM
IC451 IS61LV6416-12T SRAM
IC471 IS63LV61024-12T PPROM
IC301 DSPC56367PV150 DSP1 Decoder
IC401 DSPC56367PV150 DSP2 PPP
FL
SL
SBL
C
IC101 AK5380VT AD
W REGULATOR ASSY
CN2412 (9P)
CN2408 (17P)
CN1653 (17P)
CN1651 (28P)
CN102 (28P)
OPT
N DSP CONNECTION ASSY
CN601 (21P)
ALOUT
FL
SL
C
SW
SBL
CN301 (21P)
A AM/FM TUNER MODULE
BN201
ANTENNA FM AM
IC201 BA1451F AM/FM IF + MPX IC
CN201 (13P)
CN601 (13P)
TXL
RDS
IC701 TC94A07F
IC703 TC94A07F
IC704 TC94A07F
IC702 TC94A07F
IC103 TC9163AF
IC104 TC9215AF
JA113 (1/2)
CD-R/TAPE1 L R
JA112 (1/2)
MD/TAPE2 L R
JA111
CD L R
PHONO/LINE L R
IN
IC101 TC9274F-019 Selector
TUNER
CD-R PLAY
MD PLAY
CD
LINE/PHONE
V1/IN
V2/IN
TV/SAT
DVD/LD
FVIDEO
CD-R REC
MD REC
V1/OUT
V2/OUT
OUT
IC102 (2/2) UPC4570G2
CD-R REC
MD REC
CN3 (9P)
CN101 (15P)
V1L
V2L
TVL
DVDL
V2/OUT
V1/OUT
CN102 (13P)
CN501 (32P)
CN1401 (15P)
CN1403 (13P)
V1/OUT
V2/OUT
VSX-D2011 ONLY
L MIC & F.OPT IN ASSY
CN1601 (4P)
JA1601
DIGITAL IN (FRONT)
FOPT
FV-L
CN3006 (32P)
CN3004 (4P)
VIDEO INPUT AUDIO (FRONT) L R
JA1501
CN1501 (7P)
CN3005 (7P)
CN1405 (1/2)(17P)
CN1406 (9P)
CN1307 (9P)
D FRONT IN ASSY
S 1/2 DISPLAY ASSY
CN1204 (1/2)(17P)
CN1202 (1/2)
CN1201 (1/2)
CN1203 (1/2)
VCR1 IN L R
VCR2 IN L R
TV/SAT IN L R
DVD/LD IN L R
C 1/2 V-AUDIO IN ASSY
CN1301
IC1301 (1/2) UPC4570G2
IC1302 (1/2) UPC4570G2
MULTI CH IN
FRONT L R
SURROUND L R
CN1302
CENTER
SUB WOOFER
SURROUND BACK L R
IC1303 (1/2) UPC4570G2
IC1303 (2/2) UPC4570G2
IC1304 (1/2) UPC4570G2
B 1/2 7.1 CH I/O ASSY

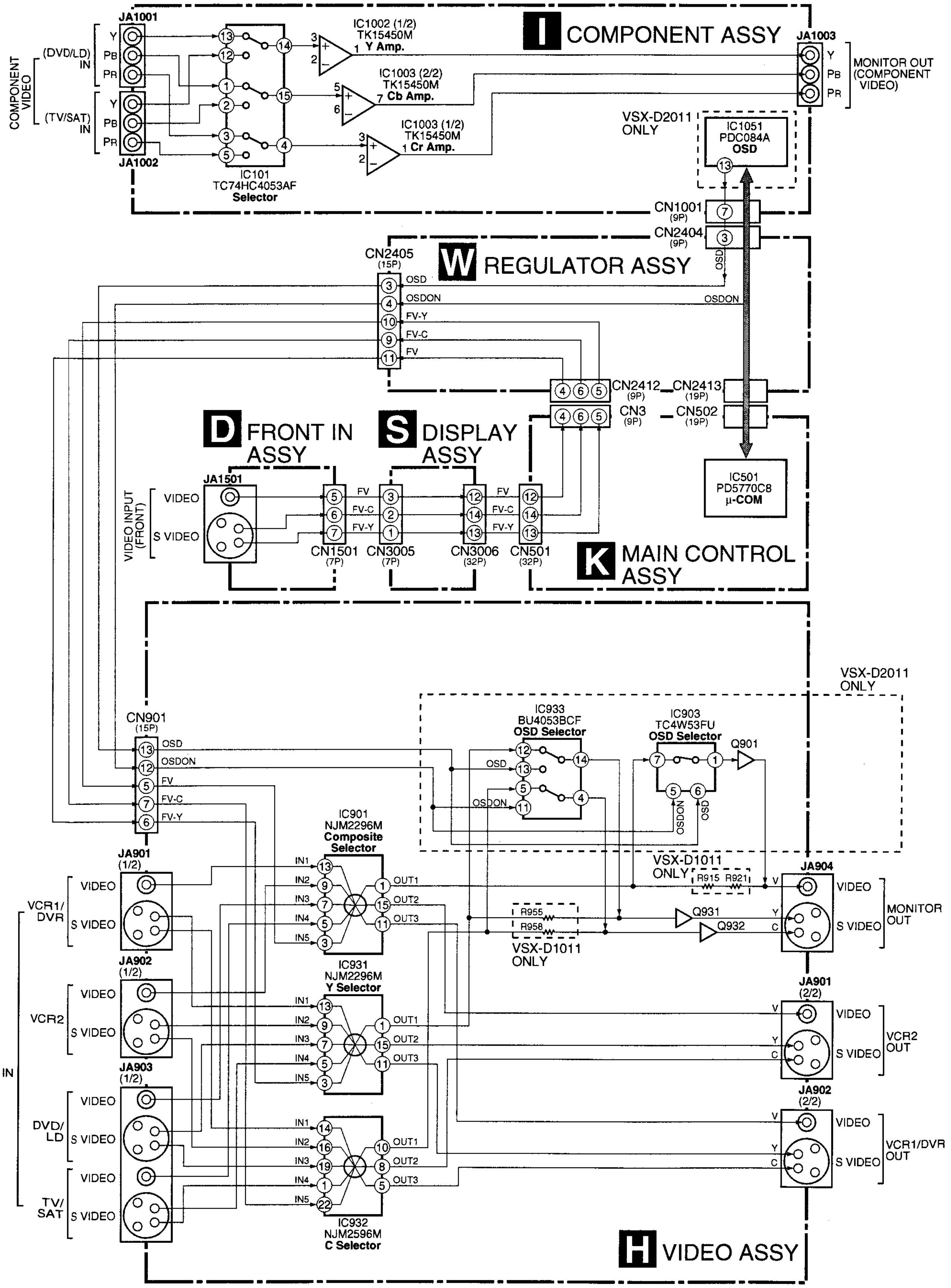

IC501
AK4383VT
IC601 (1/2)
NJM4565MD
LPF Amp.
IC681 (1/2)
NJM4565MD
MIX Amp.
IC641 (1/2)
NJM4565MD
LPF Amp.
IC541
AK4383VT
IC561
AK4383VT
IC661 (1/2)
NJM4565MD
LPF Amp.
IC621 (1/2)
NJM4565MD
LPF Amp.
IC621 (2/2)
NJM4565MD
LPF Amp.
IC521
AK4383VT
FL
SL
SBL
C
SW
The details please refer to next page.
G 2/2
COAXIAL IN ASSY
E 2/2
OPTICAL IN ASSY
V HEADPHONE ASSY
PHONES
CN101 (2/2)(20P)
CN1802 (2/2)(20P)
CN1801 (2/2)(9P)
CN1701 (2/2)(9P)
OUT1
OUT2
DOUT1
DOUT2
JA1703
JA1704
CN1951 (3P)
CN3007 (3P)
CN3001 (11P)
S 2/2
DISPLAY ASSY
HP L
CN2002 (11P)
CN2004 (5P)
AG
PRIMARY ASSY
CN4613 (5P)
K MAIN CONTROL ASSY
O POWER AMP IN ASSY
X POWER AMP-L ASSY
IC711 (2/2)
UPC4570G2
IC713 (2/2)
UPC4570G2
IC713 (2/2)
UPC4570G2
IC712
UPC4570G2
CN801 (24P)
CN4001 (24P)
CN4003 (17P)
CN4401 (17P)
IC4101
PA9009A
Power Amp.
IC4201
PA9009A
Power Amp.
IC4301
PA9009A
Power Amp.
Y2
Y3
Y3
CN4601 (2P)
CN4603 (2P)
CN4602 (2P)
RY4601
RY4602
RY4603
RY4604
CN4611
CN4612
FRONT
SURROUND
SURROUND BACK
CENTER
SPEAKERS
CN4002 (19P)
CN4402 (19P)
CN4453 (10P)
CN4454 (10P)
IC4451
PA9009A
Power Amp.
Y1
AA SP/PS ASSY
JA113 (2/2)
CD-R/ TAPE1 OUT
JA112 (2/2)
MD/ TAPE2 OUT
Y POWER AMP-R ASSY
Z POWER AMP-C ASSY
CD-R REC
MD REC
CN103 (9P)
C 2/2 V-AUDIO IN ASSY
CN1404 (9P)
IC1541
UPC4570G2
CN1405 (2/2)(17P)
CN1204 (2/2)(17P)
V1/OUT
V2/OUT
V1OL
V2OL
F INPUT CONNECT ASSY
CN1202 (2/2)
VCR1 OUT
CN1201 (2/2)
VCR2 OUT
CN1408 (9P)
CN1308 (9P)
B 2/2 7.1 CH I/O ASSY
CN1303
SUB WOOFER
CENTER
FRONT
CN1304
SURROUND
SURROUND BACK
PRE OUT

3.2 DSP BLOCK DIAGRAM

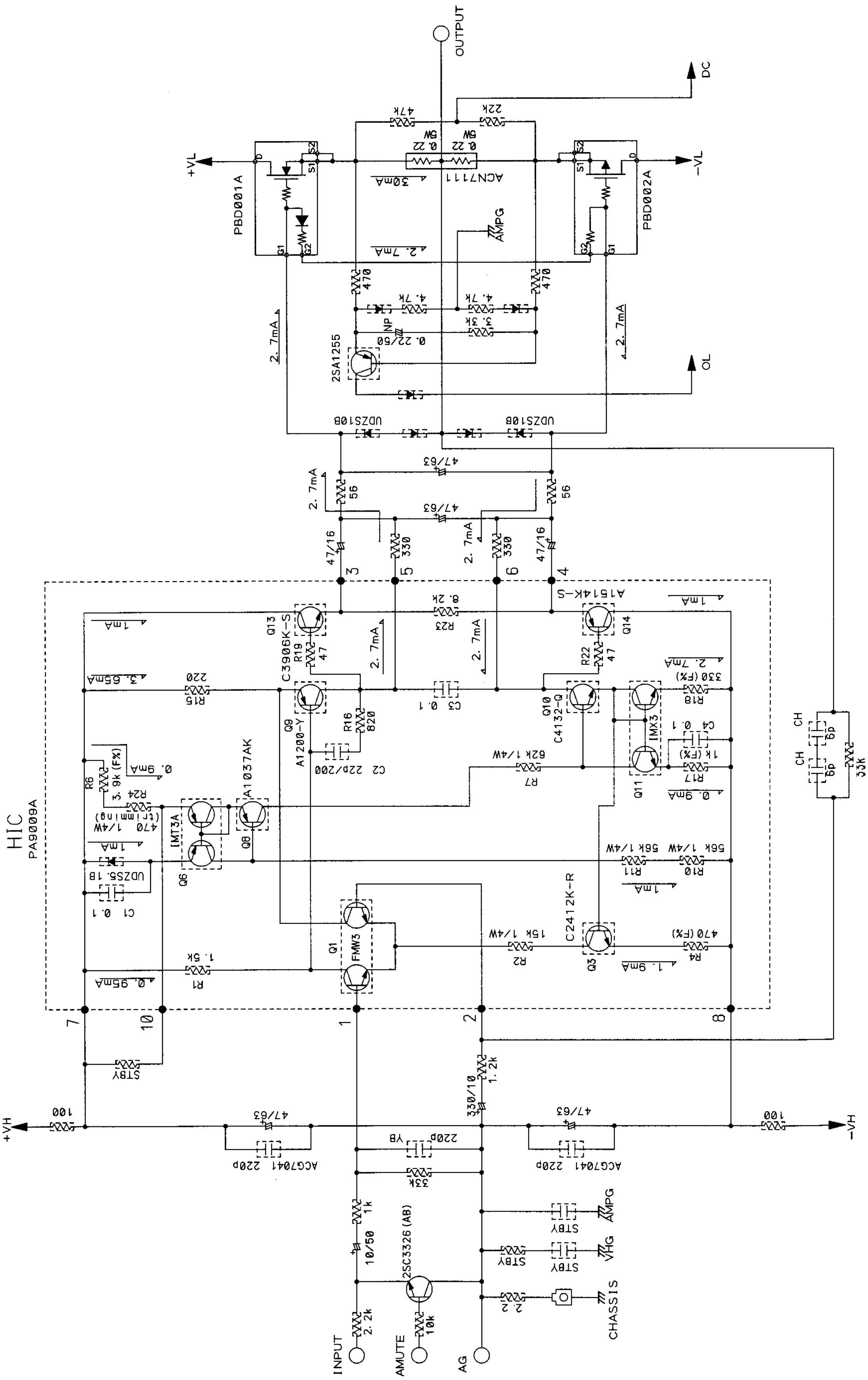

R DSP ASSY
CN601 (21P)
K CN301
AL IN 20
AR IN 18
IC101 AK5380VT AD
BICK
LRCK
MCK
CN101 (20P)
G CN1802
IN1 16
IN2 14
IN3 12
IN4 10
IN5 8
IN6 6
OUT1 4
OUT2 2
DAUX
IC201 AK4114VQ DIR & DIT
SDTO
BICK
LRCK
MCKO1
CN102 (50P)
N CN651
DIN 18
SPDIF 2
IEMCK 14
IELCK 7
IEBCK 9
IFDT 6
ICDT 5
ISDT 4
IBDT 3
CN701 (22P)
IC701 TC74VHC157FT SELECTOR
MCK
IC302 IS61LV6416-12T SRAM
IC303 IS63LV1024-12T SRAM
IC301 DSPC56367PV150 DECODER DSP1
FDT
CDT
SDT
BDT
LRCK
BICK
IC305 TC7W125FU 3 STATE BUFFER
CN702 (10P)
IC705 TC7SH04FU INVERTER
IC706 TC7SH04FU INVERTER
DSD1 7
DSD2 6
DSD3 5
DSD4 4
DSD5 3
DSD6 2
DSCK 9


CLOCK LINE
DATA LINE
IC501
AK4383VT
DA
MCLK
BICK
LRCK
SDTI
DSDL
DSDR
DCLK
OUT+
OUT−
IC601
NJM4565MD
LPF AMP
FL
FR
IC681
NJM4565MD
MIX AMP
Q682
2SK208
SW
Q681
2SK208
SW
G
S
D
IC521 AK4383VT
IC621
NJM4565MD
LPF AMP
SW
C
IC503
TC7SH04FU
BUFFER
IC451
IS61LV6416-12T
SRAM
IC471
IS63LV1024-12T
PPROM
IC541 AK4383VT
IC641
NJM4565MD
LPF AMP
SL
SR
IC561 AK4382AVT
IC661
NJM4565MD
LPF AMP
SBL
SBR
DA3
DA2
DA1
DA0
IC401
DSPC56367PV150
PPP
DSP2
BICK
LRCK
CN601
(21P)
FLO
FRO
SWO
CO
SLO
SRO
SBLO
SBRO
K
CN301

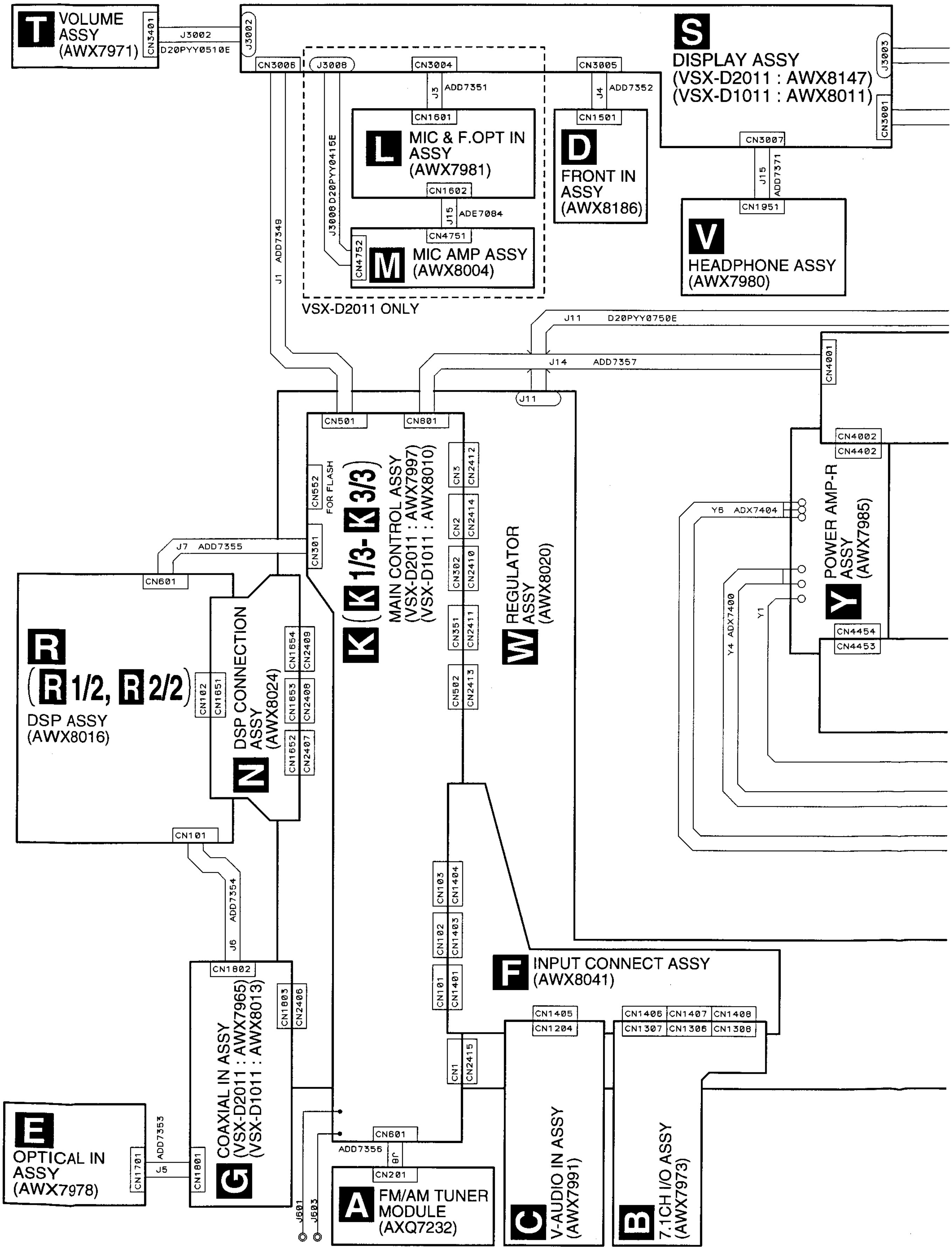
3.3 VIDEO BLOCK DIAGRAM


I COMPONENT ASSY
JA1001
COMPONENT VIDEO
(DVD/LD) IN
(TV/SAT) IN
Y
PB
PR
JA1002
IC101
TC74HC4053AF
Selector
IC1002 (1/2)
TK15450M
Y Amp.
IC1003 (2/2)
TK15450M
Cb Amp.
IC1003 (1/2)
TK15450M
Cr Amp.
JA1003
MONITOR OUT (COMPONENT VIDEO)
VSX-D2011 ONLY
IC1051
PDC084A
OSD
CN1001 (9P)
CN2404 (9P)
W REGULATOR ASSY
CN2405 (15P)
OSD
OSDON
FV-Y
FV-C
FV
CN2412 (9P)
CN2413 (19P)
CN3 (9P)
CN502 (19P)
D FRONT IN ASSY
S DISPLAY ASSY
JA1501
VIDEO INPUT (FRONT)
VIDEO
S VIDEO
CN1501 (7P)
CN3005 (7P)
CN3006 (32P)
CN501 (32P)
IC501
PD5770C8
μ-COM
K MAIN CONTROL ASSY
CN901 (15P)
VSX-D2011 ONLY
IC933
BU4053BCF
OSD Selector
IC903
TC4W53FU
OSD Selector
Q901
IC901
NJM2296M
Composite Selector
IC931
NJM2296M
Y Selector
IC932
NJM2596M
C Selector
IN1
IN2
IN3
IN4
IN5
OUT1
OUT2
OUT3
VSX-D1011 ONLY
R915
R921
R955
R958
Q931
Q932
JA901 (1/2)
VCR1/ DVR
JA902 (1/2)
VCR2
JA903 (1/2)
DVD/ LD
TV/ SAT
IN
JA904
MONITOR OUT
JA901 (2/2)
VCR2 OUT
JA902 (2/2)
VCR1/DVR OUT
V
Y
C
H VIDEO ASSY

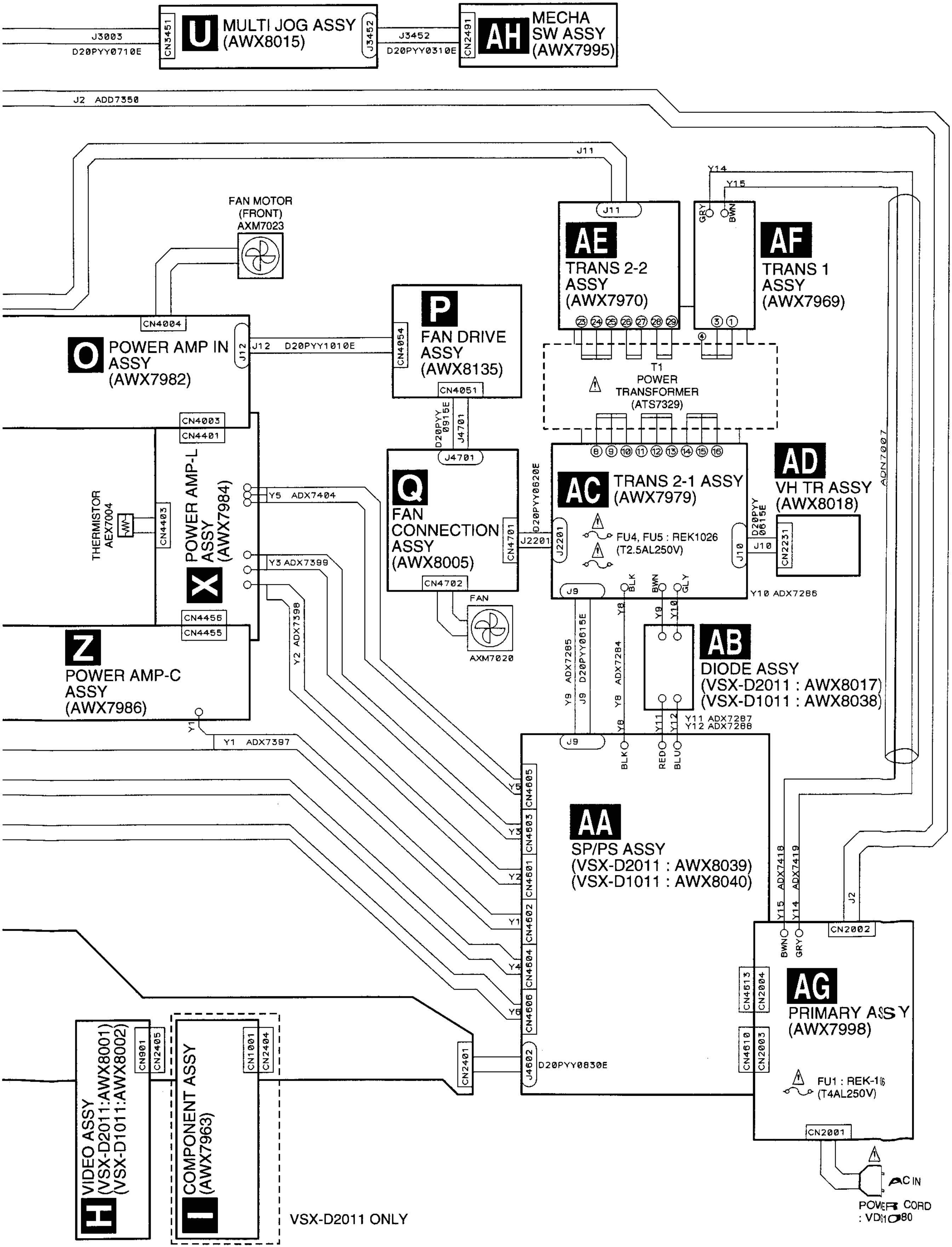
3.4 POWER AMP BLOCK DIAGRAM


OUTPUT
DC
47k
22k
0.22 5W
0.22 5W
ACN7111
30mA
+VL
-VL
PBD001A
PBD002A
D
S1
S2
G1
G2
AMPG
2.7mA
470
4.7k
3.3k
NP
0.22/50
2SA1255
OL
UDZS10B
47/63
56
330
47/16
3
4
5
6
HIC
PA9009A
Q13
C3906K-S
Q14
A1514K-S
8.2k
R23
R19
47
R22
47
1mA
2.7mA
220
R15
3.65mA
C3 0.1
Q9
A1200-Y
R16
820
Q10
C4132-Q
IMX3
R18
330(F%)
C4 0.1
R17
1k(F%)
Q11
C2 22p/200
R7
62k 1/4W
A1037AK
Q8
IMT3A
Q6
R6
3.9k(F%)
R24
470 1/4W
(trimming)
0.9mA
UDZS5.1B
C1 0.1
R11
56k 1/4W
R10
56k 1/4W
C2412K-R
Q3
R2
15k 1/4W
R4
470(F%)
1.9mA
Q1
FMW3
R1
1.5k
0.95mA
7
10
1
2
8
CH
6p
33k
STBY
1.2k
330/10
100
+VH
-VH
ACG7041 220p
220p YB
1k
10/50
2SC3326(AB)
2.2k
10k
INPUT
AMUTE
AG
VHG
2.2
CHASSIS

3.5 OVERALL WIRING DIAGRAM

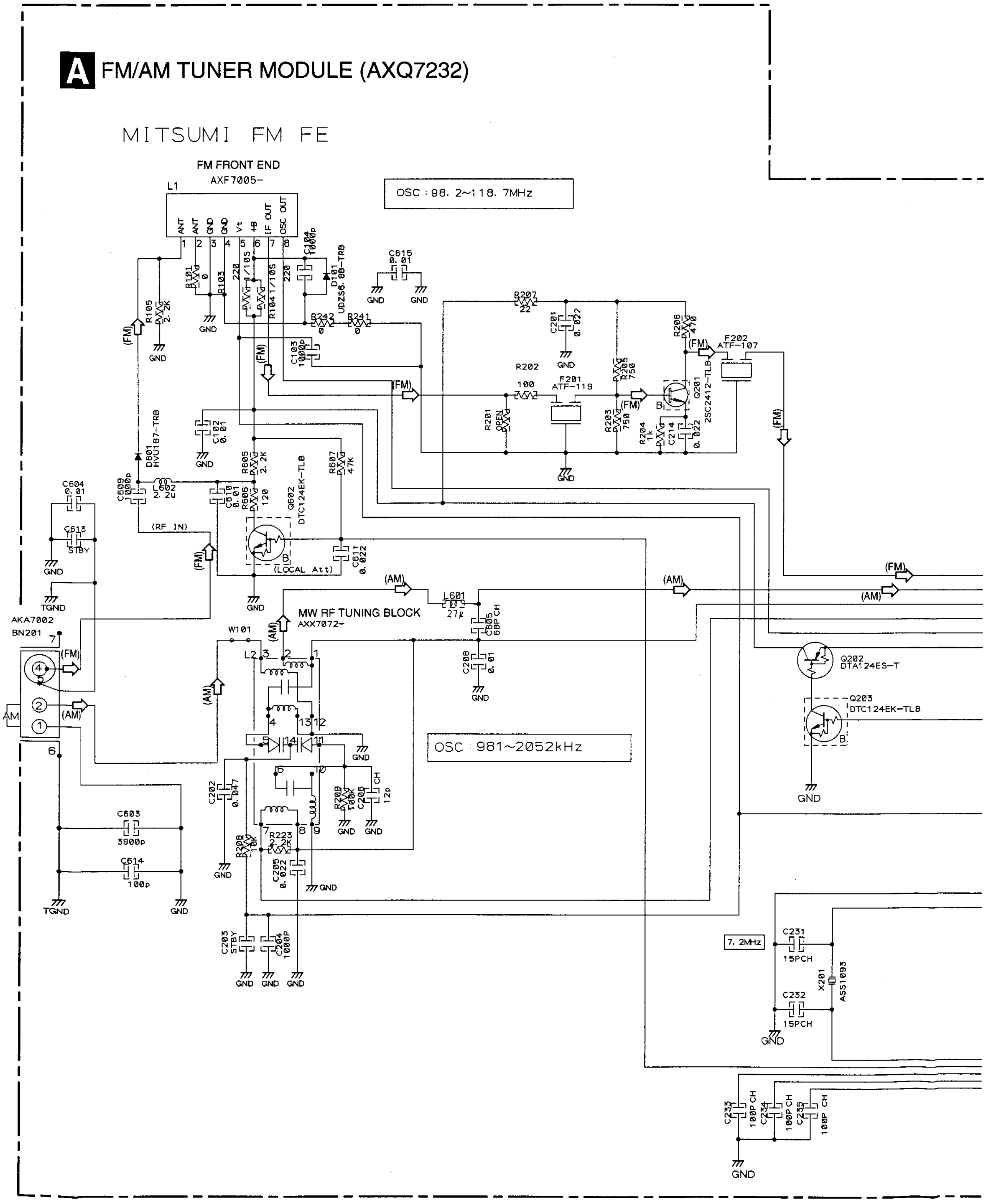

A
B
C
D
E
F
T
VOLUME ASSY (AWX7971)
CN3401
J3002
D20PYY0510E
J3002
S
DISPLAY ASSY
(VSX-D2011 : AWX8147)
(VSX-D1011 : AWX8011)
J3003
CN3001
CN3006
J3008
CN3004
CN3005
CN3007
J3
ADD7351
J4
ADD7352
J15
ADD7371
CN1601
L
MIC & F.OPT IN ASSY (AWX7981)
CN1602
J15
ADE7084
CN4751
CN4752
M
MIC AMP ASSY (AWX8004)
J3008 D20PYY0415E
VSX-D2011 ONLY
CN1501
D
FRONT IN ASSY (AWX8186)
CN1951
V
HEADPHONE ASSY (AWX7980)
J1
ADD7349
J11
D20PYY0750E
J14
ADD7357
J11
CN4001
CN4002
CN4402
Y
POWER AMP-R ASSY (AWX7985)
Y6
ADX7404
Y4
ADX7400
Y1
CN4454
CN4453
CN501
CN801
CN552
FOR FLASH
CN301
K (K 1/3- K 3/3)
MAIN CONTROL ASSY
(VSX-D2011 : AWX7997)
(VSX-D1011 : AWX8010)
CN3
CN2412
CN2
CN2414
CN302
CN2410
CN351
CN2411
CN502
CN2413
W
REGULATOR ASSY (AWX8020)
J7
ADD7355
CN601
R
(R 1/2, R 2/2)
DSP ASSY (AWX8016)
CN102
CN1651
CN1654
CN2409
CN1653
CN2408
CN1652
CN2407
N
DSP CONNECTION ASSY (AWX8024)
CN101
J6
ADD7354
CN103
CN1404
CN102
CN1403
CN101
CN1401
F
INPUT CONNECT ASSY (AWX8041)
CN1405
CN1204
CN1406
CN1407
CN1408
CN1307
CN1306
CN1308
CN1
CN2415
CN1802
CN1803
CN2406
G
COAXIAL IN ASSY
(VSX-D2011 : AWX7965)
(VSX-D1011 : AWX8013)
CN1801
J5
ADD7353
CN1701
E
OPTICAL IN ASSY (AWX7978)
CN601
ADD7356
J8
CN201
A
FM/AM TUNER MODULE (AXQ7232)
J601
J603
C
V-AUDIO IN ASSY (AWX7991)
B
7.1CH I/O ASSY (AWX7973)

Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".


J3003
D20PYY0710E
CN3451
U
MULTI JOG ASSY
(AWX8015)
J3452
J3452
D20PYY0310E
CN2491
AH
MECHA
SW ASSY
(AWX7995)
J2 ADD7350
J11
Y14
Y15
FAN MOTOR
(FRONT)
AXM7023
J11
AE
TRANS 2-2
ASSY
(AWX7970)
GRY
BWN
AF
TRANS 1
ASSY
(AWX7969)
㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙
③ ①
④
CN4004
O
POWER AMP IN
ASSY
(AWX7982)
J12
J12 D20PYY1010E
CN4054
P
FAN DRIVE
ASSY
(AWX8135)
CN4051
T1
POWER
TRANSFORMER
(ATS7329)
CN4003
CN4401
D20PYY
0915E
J4701
J4701
⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯
AD
VH TR ASSY
(AWX8018)
ADN7007
THERMISTOR
AEX7004
CN4403
POWER AMP-L
ASSY
(AWX7984)
X
Y5 ADX7404
Y3 ADX7399
Q
FAN
CONNECTION
ASSY
(AWX8005)
CN4701
D20PYY0620E
J2201
J2201
AC
TRANS 2-1 ASSY
(AWX7979)
FU4, FU5 : REK1026
(T2.5AL250V)
D20PYY
0615E
J10
J10
CN2231
CN4702
FAN
AXM7020
J9
BLK
BWN
GLY
Y10 ADX7286
CN4456
CN4455
Y2 ADX7398
Z
POWER AMP-C
ASSY
(AWX7986)
Y9 ADX7285
J9 D20PYY0615E
Y8 ADX7284
Y8
Y9
Y10
AB
DIODE ASSY
(VSX-D2011 : AWX8017)
(VSX-D1011 : AWX8038)
Y11 ADX7287
Y12 ADX7288
Y1
Y1 ADX7397
J9
Y8
Y11
Y12
BLK
RED
BLU
Y5
CN4605
Y3
CN4603
Y2
CN4601
Y1
CN4602
Y4
CN4604
Y6
CN4606
AA
SP/PS ASSY
(VSX-D2011 : AWX8039)
(VSX-D1011 : AWX8040)
Y15 ADX7418
Y14 ADX7419
J2
CN2002
BWN
GRY
CN4613
CN2004
CN4610
CN2003
AG
PRIMARY ASSY
(AWX7998)
FU1 : REK-1
(T4AL250V)
CN2001
AC IN
POWER CORD
: VD 80
CN2401
J4602
D20PYY0830E
CN901
CN2405
VIDEO ASSY
(VSX-D2011:AWX8001)
(VSX-D1011:AWX8002)
H
CN1001
CN2404
COMPONENT ASSY
(AWX7963)
I
VSX-D2011 ONLY

3.6 FM/AM TUNER MODULE

A FM/AM TUNER MODULE (AXQ7232)


MITSUMI FM FE
FM FRONT END
AXF7005−
L1
ANT
ANT
GND
GND
Vt
+B
IF OUT
OSC OUT
OSC : 98. 2~118. 7MHz
C615 0.01
R101 0
R103
R105 2.2K
220
R102 1/10S
R104 1/10S
220
C104 1000p
D101 UDZS6.8B−TRB
R242 0
R241 0
C103 1000p
R207 22
C201 0.022
R206 470
F202 ATF−107
R202 100
F201 ATF−119
R205 750
R201 OPEN
R203 750
R204 1k
C214 0.022
Q201 2SC2412−TLB
C102 0.01
D601 HVU187−TRB
R605 2.2K
R607 47K
C604 0.01
C609 1000p
L602 2.2u
C610 0.01
R606 120
Q602 DTC124EK−TLB
C613 STBY
(RF IN)
(LOCAL Att)
C611 0.022
TGND
AKA7002
BN201
(FM)
(AM)
AM
L601 27μ
C605 68P CH
MW RF TUNING BLOCK
AXX7072−
W101
L2
C208 0.01
Q202 DTA124ES−T
Q203 DTC124EK−TLB
OSC : 981~2052kHz
C202 0.047
R209 100K
C206 CH 12p
R208 10K
R223 2.2K
C205 0.022
C603 3900p
C614 100p
C203 STBY
C204 1000P
7. 2MHz
C231 15PCH
C232 15PCH
X201 ASS1093
C233 100P CH
C234 100P CH
C235 100P CH
GND

A

▢ : The power supply is shown with the marked box.

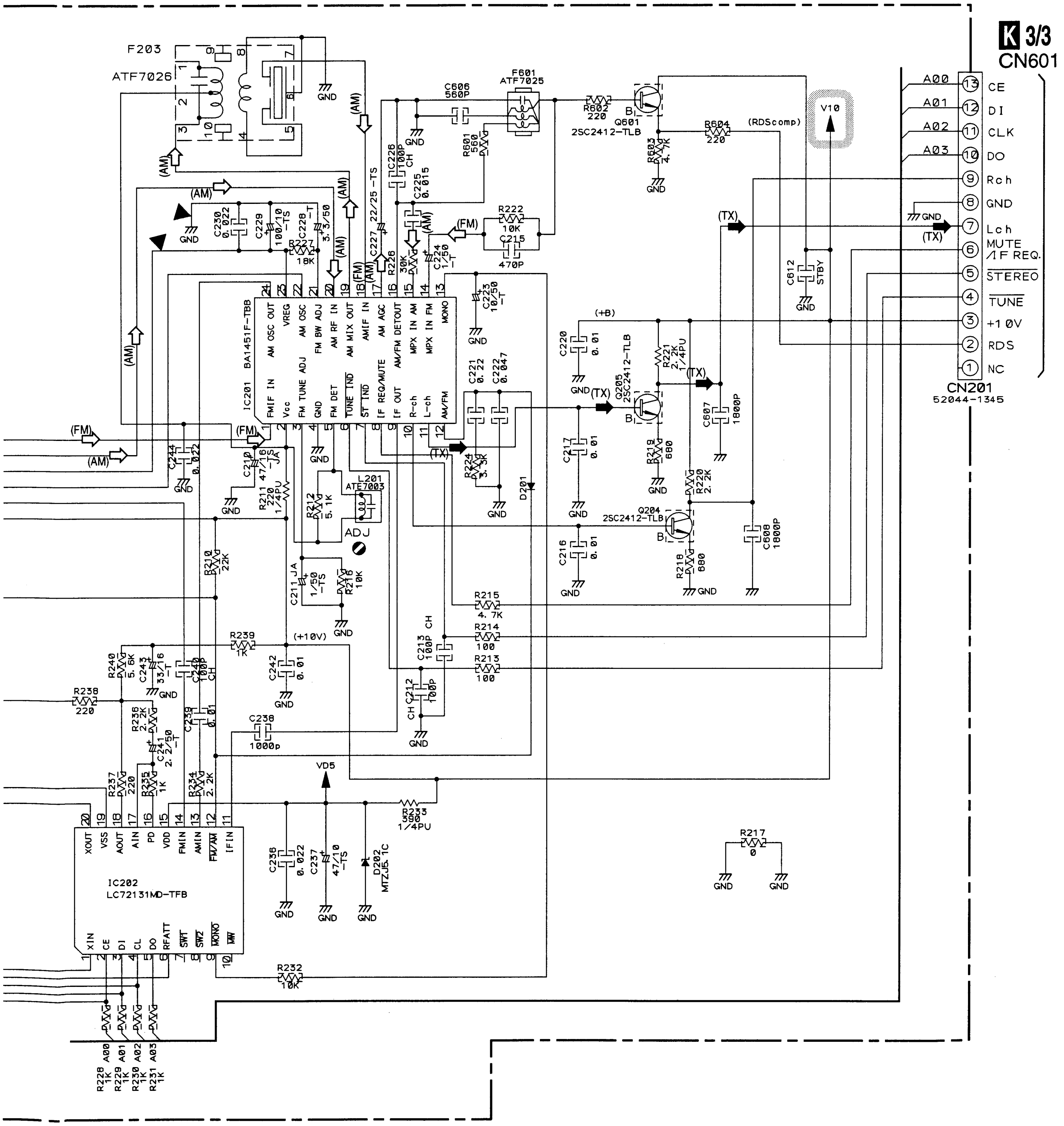
Notes

1. RESISTORS
   Indicated in Ω, 1/16W±5% Tolerance unless otherwise noted K;kΩ, M;MΩ.
2. CAPACITORS
   Indicated in Capacity(µF)/VOLTAGE(V) unless otherwise noted P;PF.
3. DIODES
   No mark diode is 1SS133.

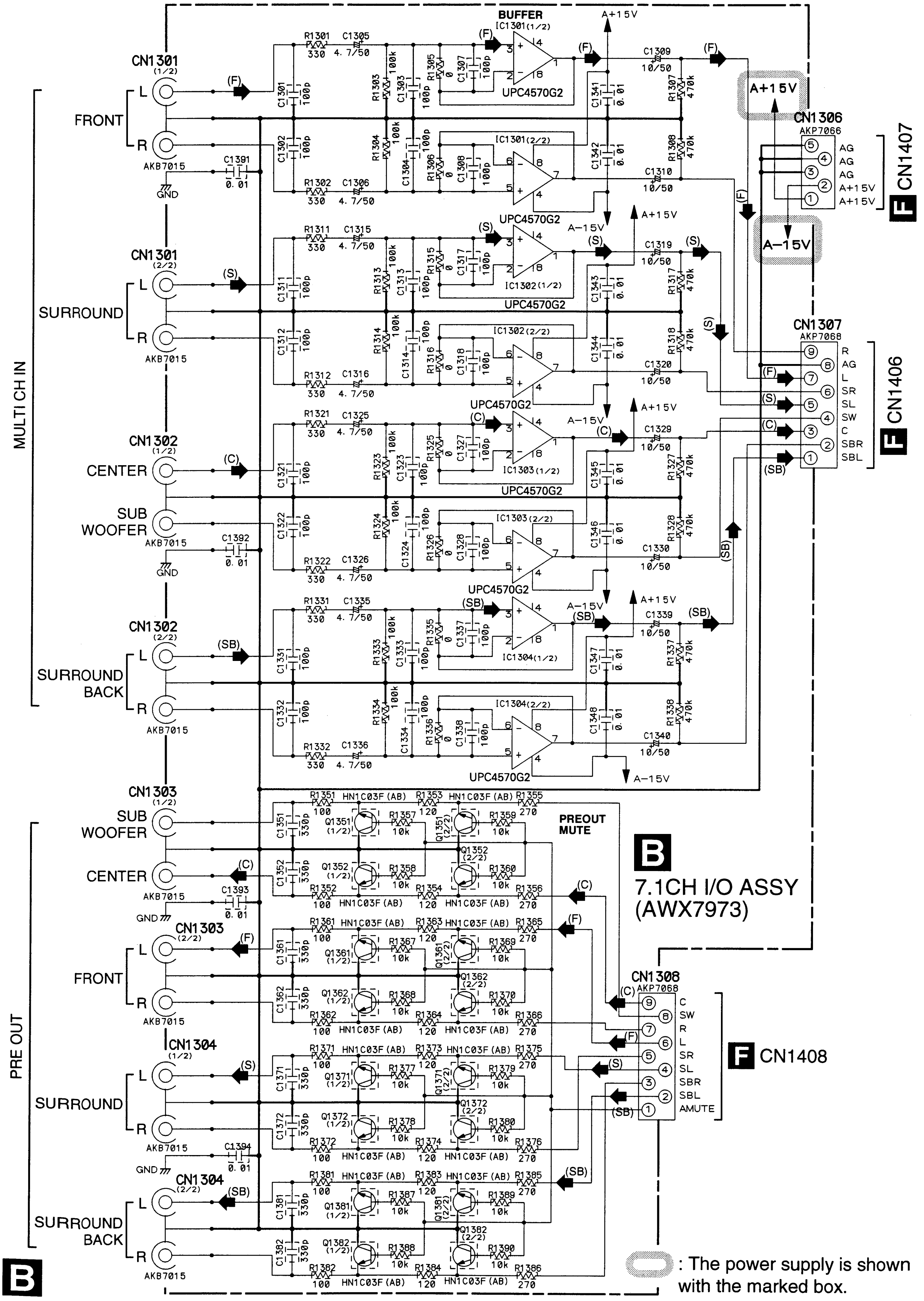
(TX) ➡ : AUDIO SIGNAL ROUTE (TUNER)

(AM) ⇨ : AM SIGNAL ROUTE

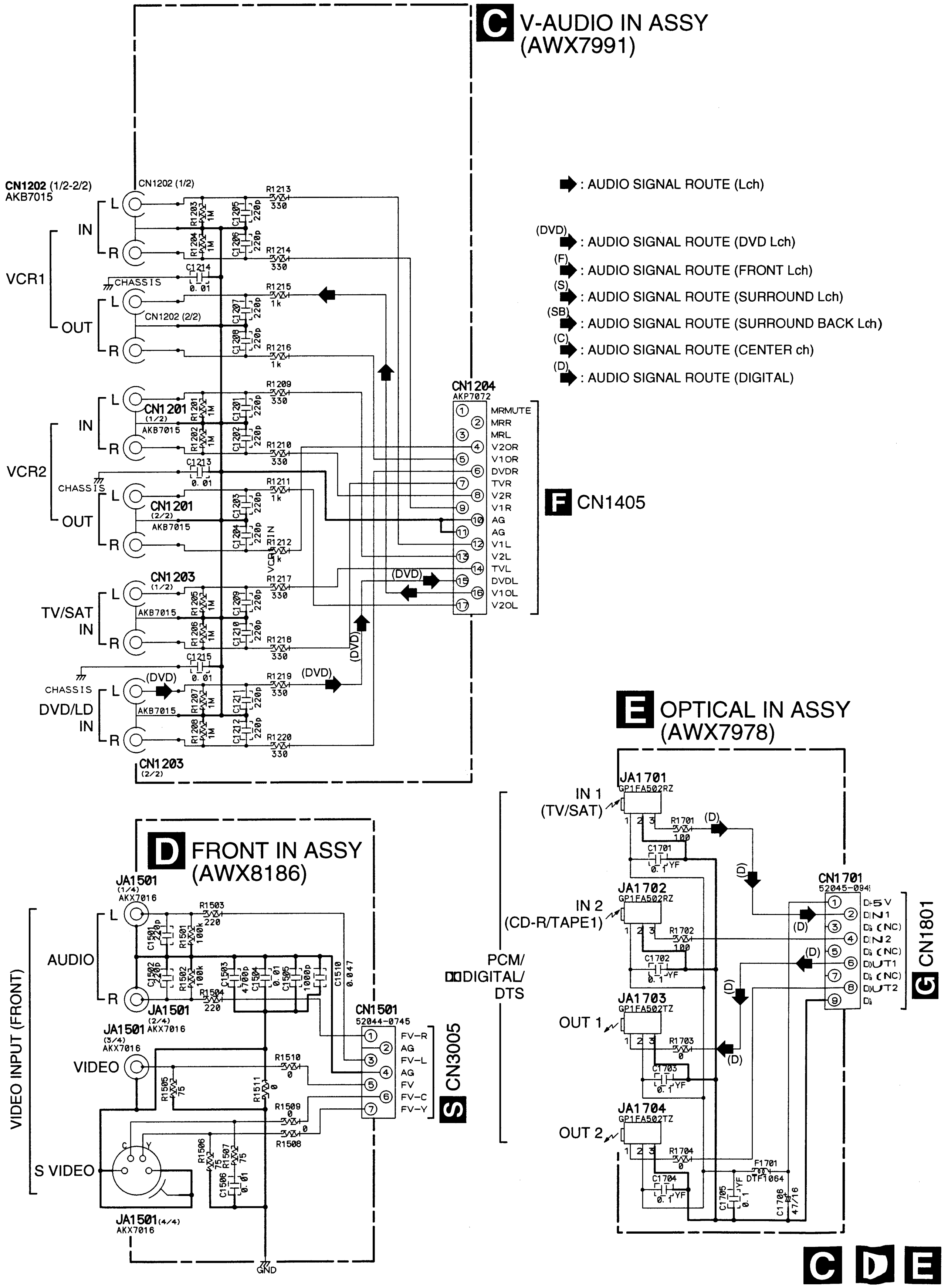
(FM) ⇨ : FM SIGNAL ROUTE


K 3/3
CN601
F203
ATF7026
GND
(AM)
C606
560P
F601
ATF7025
R602
220
Q601
2SC2412-TLB
R604
220
(RDScomp)
V10
R603
4.7K
R601
560
C226
100P
CH
C225
0.015
22/25 -TS
C230
0.022
C229
100/10 -TS
C228
3.3/50 -T
R227
18K
R222
10K
C215
470P
(FM)
R226
30K
C227
C224
1/50 -T
C223
10/50 -T
IC201 BA1451F-TBB
FMIF IN
Vcc
FM TUNE ADJ
GND
FM DET
TUNE IND
ST IND
IF REQ/MUTE
IF OUT
R-ch
L-ch
AM/FM
AM OSC OUT
VREG
AM OSC
FM BW ADJ
AM RF IN
AM MIX OUT
AMIF IN
AM AGC
AM/FM DETOUT
MPX IN AM
MPX IN FM
MONO
C221
0.22
C222
0.047
C220
0.01
(+B)
R221
2.2K
1/4PU
Q205
2SC2412-TLB
(TX)
C607
1800P
R219
680
C217
0.01
R220
2.2K
Q204
2SC2412-TLB
C608
1800P
R218
680
C216
0.01
C612
STBY
A00
A01
A02
A03
CE
DI
CLK
DO
Rch
GND
Lch
MUTE /IF REQ.
STEREO
TUNE
+10V
RDS
NC
CN201
52044-1345
C244
0.022
C210
47/16 -JA
R211
220
1/4PU
R212
5.1K
L201
ATE7003
ADJ
R224
3.3K
D201
R210
22K
C211
1/50 -TS
JA
R216
10K
R239
1K
(+10V)
R215
4.7K
R214
100
R213
100
C213
100P
CH
C212
100P
CH
R240
5.6K
C243
33/16 -T
C240
100P
CH
C242
0.01
R238
220
R236
2.2K
C241
2.2/50 -T
C239
0.01
C238
1000p
VD5
R237
220
R235
1K
R234
2.2K
R233
390
1/4PU
IC202
LC72131MD-TFB
XOUT
VSS
AOUT
AIN
PD
VDD
FMIN
AMIN
FM/AM
IFIN
XIN
CE
DI
CL
DO
RFATT
SW1
SW2
MONO
MW
C236
0.022
C237
47/10 -TS
D202
MTZJ5.1C
R217
0
R232
10K
R228 1K A00
R229 1K A01
R230 1K A02
R231 1K A03

3.7 7.1CH I/O, V-AUDIO IN, FRONT IN and OPTICAL IN ASSYS

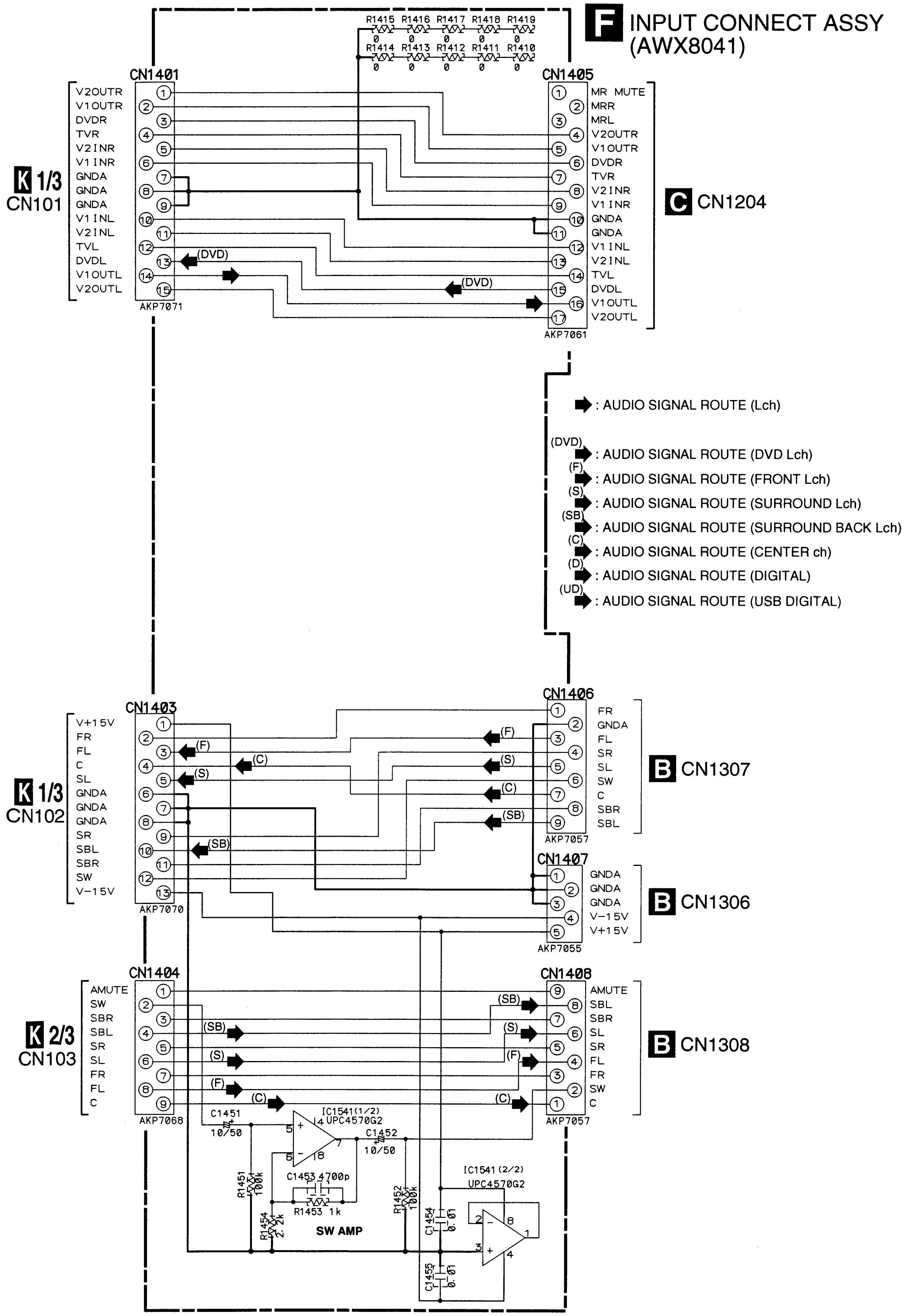

BUFFER
IC1301(1/2)
UPC4570G2
A+15V
A−15V
CN1301 (1/2)
FRONT
L
R
AKB7015
GND
C1391 0.01
CN1301 (2/2)
SURROUND
CN1302 (1/2)
CENTER
SUB WOOFER
C1392 0.01
CN1302 (2/2)
SURROUND BACK
MULTI CH IN
R1301 330
C1305 4.7/50
C1301 100p
R1303 100k
C1303 100p
R1305 0
C1307 100p
C1309 10/50
R1307 470k
C1341 0.01
IC1301(2/2)
R1302 330
C1306 4.7/50
R1304 100k
C1304 100p
R1306 0
C1308 100p
C1310 10/50
R1308 470k
C1342 0.01
IC1302(1/2)
IC1302(2/2)
R1311 330
C1315 4.7/50
R1312 330
C1316 4.7/50
C1319 10/50
C1320 10/50
IC1303(1/2)
IC1303(2/2)
R1321 330
C1325 4.7/50
R1322 330
C1326 4.7/50
C1329 10/50
C1330 10/50
IC1304(1/2)
IC1304(2/2)
R1331 330
C1335 4.7/50
R1332 330
C1336 4.7/50
C1339 10/50
C1340 10/50
(F)
(S)
(C)
(SB)
A+15V
CN1306
AKP7066
AG
AG
AG
A+15V
A+15V
F CN1407
A−15V
CN1307
AKP7068
R
AG
L
SR
SL
SW
C
SBR
SBL
F CN1406
CN1303 (1/2)
SUB WOOFER
CENTER
C1393 0.01
CN1303 (2/2)
FRONT
CN1304 (1/2)
SURROUND
C1394 0.01
CN1304 (2/2)
SURROUND BACK
PRE OUT
PREOUT MUTE
R1351 100
HN1C03F (AB)
R1353 120
R1355 270
R1357 10k
R1359 10k
Q1351 (1/2)
Q1351 (2/2)
Q1352 (1/2)
Q1352 (2/2)
C1351 330p
C1352 330p
R1352 100
R1354 120
R1356 270
R1358 10k
R1360 10k
R1361 100
R1363 120
R1365 270
Q1361 (1/2)
Q1362 (2/2)
R1371 100
R1373 120
R1375 270
Q1371 (1/2)
Q1372 (2/2)
R1381 100
R1383 120
R1385 270
Q1381 (1/2)
Q1382 (2/2)
CN1308
AKP7068
C
SW
R
L
SR
SL
SBR
SBL
AMUTE
F CN1408
B
7.1CH I/O ASSY
(AWX7973)
B

: The power supply is shown with the marked box.


C V-AUDIO IN ASSY
(AWX7991)
: AUDIO SIGNAL ROUTE (Lch)
(DVD) : AUDIO SIGNAL ROUTE (DVD Lch)
(F) : AUDIO SIGNAL ROUTE (FRONT Lch)
(S) : AUDIO SIGNAL ROUTE (SURROUND Lch)
(SB) : AUDIO SIGNAL ROUTE (SURROUND BACK Lch)
(C) : AUDIO SIGNAL ROUTE (CENTER ch)
(D) : AUDIO SIGNAL ROUTE (DIGITAL)
CN1202 (1/2-2/2)
AKB7015
CN1202 (1/2)
CN1202 (2/2)
VCR1
IN
OUT
L
R
CHASSIS
R1213 330
R1214 330
R1215 1k
R1216 1k
R1203 1M
R1204 1M
C1205 220p
C1206 220p
C1207 220p
C1208 220p
C1214 0.01
VCR2
CN1201 (1/2)
AKB7015
CN1201 (2/2)
AKB7015
R1209 330
R1210 330
R1211 1k
R1212 1k
R1201 1M
R1202 1M
C1201 220p
C1202 220p
C1203 220p
C1204 220p
C1213 0.01
TV/SAT
IN
CN1203 (1/2)
AKB7015
R1217 330
R1218 330
R1205 1M
R1206 1M
C1209 220p
C1210 220p
C1215 0.01
DVD/LD
IN
CN1203 (2/2)
R1219 330
R1220 330
R1207 1M
R1208 1M
C1211 220p
C1212 220p
(DVD)
VCR1IN
CN1204
AKP7072
1 MRMUTE
2 MRR
3 MRL
4 V2OR
5 V1OR
6 DVDR
7 TVR
8 V2R
9 V1R
10 AG
11 AG
12 V1L
13 V2L
14 TVL
15 DVDL
16 V1OL
17 V2OL
F CN1405
D FRONT IN ASSY
(AWX8186)
VIDEO INPUT (FRONT)
AUDIO
JA1501 (1/4)
AKX7016
JA1501 (2/4)
AKX7016
JA1501 (3/4)
AKX7016
JA1501 (4/4)
AKX7016
VIDEO
S VIDEO
C Y
R1503 220
R1504 220
R1501 100k
R1502 100k
C1501 220p
C1502 220p
C1503 4700p
C1504 0.01
C1505 1000p
C1510 0.047
R1505 75
R1510 0
R1511 0
R1509 0
R1508 0
R1506 75
R1507 75
C1506 0.01
GND
CN1501
52044-0745
1 FV-R
2 AG
3 FV-L
4 AG
5 FV
6 FV-C
7 FV-Y
S CN3005
E OPTICAL IN ASSY
(AWX7978)
PCM/
DIGITAL/
DTS
JA1701
GP1FA502RZ
IN 1
(TV/SAT)
R1701 100
C1701 0.1 YF
JA1702
GP1FA502RZ
IN 2
(CD-R/TAPE1)
R1702 100
C1702 0.1 YF
JA1703
GP1FA502TZ
OUT 1
R1703 0
C1703 0.1 YF
JA1704
GP1FA502TZ
OUT 2
R1704 0
C1704 0.1 YF
C1705 0.1 YF
F1701 DTF1064
C1706 47/16
CN1701
52045-094
1 D+5V
2 DIN1
3 D (NC)
4 DIN2
5 D (NC)
6 DOUT1
7 D (NC)
8 DOUT2
9 D
G CN1801
1 2 3
(D)

C D E

3.8 INPUT CONNECT and COAXIAL IN ASSYS


F INPUT CONNECT ASSY
(AWX8041)
R1415 R1416 R1417 R1418 R1419
0 0 0 0 0
R1414 R1413 R1412 R1411 R1410
0 0 0 0 0
CN1401
V2OUTR V1OUTR DVDR TVR V2INR V1INR GNDA GNDA GNDA V1INL V2INL TVL DVDL V1OUTL V2OUTL
K 1/3
CN101
AKP7071
(DVD)
CN1405
MR MUTE MRR MRL V2OUTR V1OUTR DVDR TVR V2INR V1INR GNDA GNDA V1INL V2INL TVL DVDL V1OUTL V2OUTL
AKP7061
C CN1204
CN1403
V+15V FR FL C SL GNDA GNDA GNDA SR SBL SBR SW V-15V
K 1/3
CN102
AKP7070
(F) (C) (S) (SB)
CN1406
FR GNDA FL SR SL SW C SBR SBL
AKP7057
B CN1307
CN1407
GNDA GNDA GNDA V-15V V+15V
AKP7055
B CN1306
CN1404
AMUTE SW SBR SBL SR SL FR FL C
K 2/3
CN103
AKP7068
CN1408
AMUTE SBL SBR SL SR FL FR SW C
AKP7057
B CN1308
C1451 10/50
IC1541(1/2) UPC4570G2
C1452 10/50
R1451 100k
C1453 4700p
R1453 1k
R1454 2.2k
R1452 100k
SW AMP
IC1541(2/2) UPC4570G2
C1454 0.01
C1455 0.01

➡: AUDIO SIGNAL ROUTE (Lch)

(DVD) ➡: AUDIO SIGNAL ROUTE (DVD Lch)

(F) ➡: AUDIO SIGNAL ROUTE (FRONT Lch)

(S) ➡: AUDIO SIGNAL ROUTE (SURROUND Lch)

(SB) ➡: AUDIO SIGNAL ROUTE (SURROUND BACK Lch)

(C) ➡: AUDIO SIGNAL ROUTE (CENTER ch)

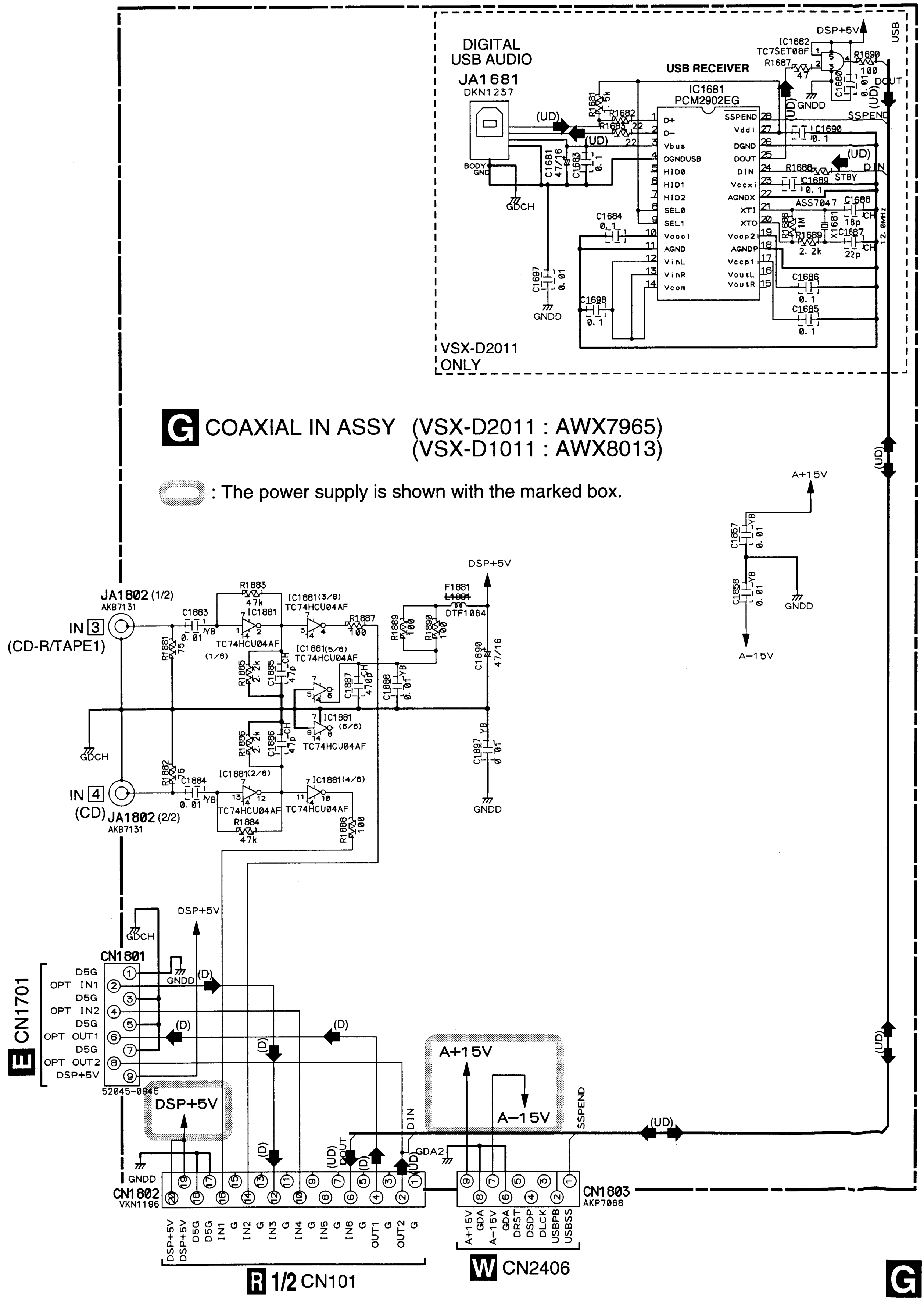
(D) ➡: AUDIO SIGNAL ROUTE (DIGITAL)

(UD) ➡: AUDIO SIGNAL ROUTE (USB DIGITAL)

F

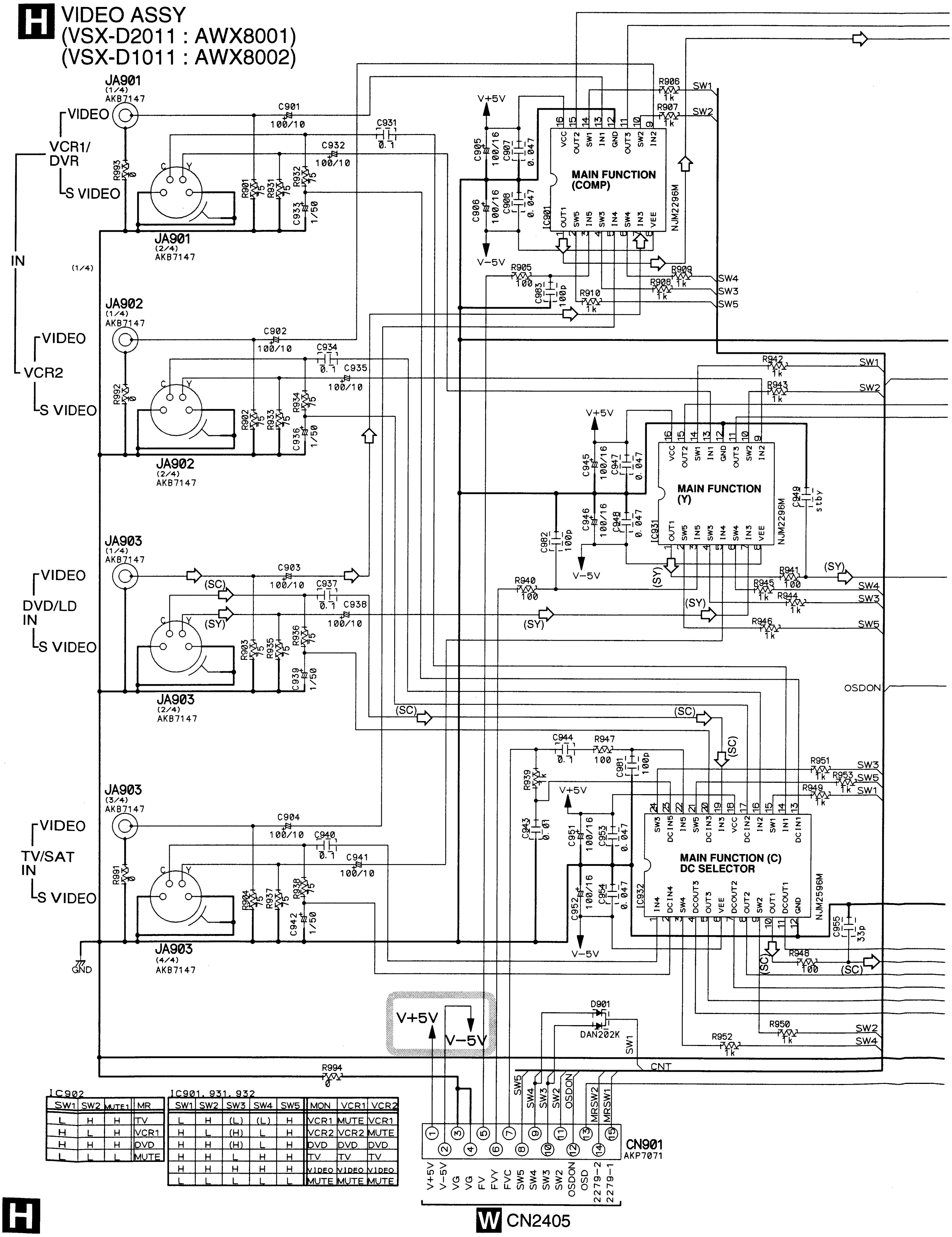
G COAXIAL IN ASSY (VSX-D2011 : AWX7965)
(VSX-D1011 : AWX8013)

: The power supply is shown with the marked box.


DIGITAL USB AUDIO
JA1681
DKN1237
USB RECEIVER
IC1681
PCM2902EG
IC1682
TC7SET08F
DSP+5V
USB
R1690
100
R1687
47
C1680
0.01
DOUT
SSPEND
DIN
C1690
0.1
R1688
STBY
C1689
0.1
ASS7047
C1688
18p
X1681
12.0MHz
R1686
1M
R1689
2.2k
C1687
22p
C1686
0.1
C1685
0.1
R1681
1.5k
R1682
22
R1683
22
C1681
47/16
C1683
0.1
C1684
0.1
C1697
0.01
C1698
0.1
GDCH
GNDD
(UD)
D+
D-
Vbus
DGNDUSB
HID0
HID1
HID2
SEL0
SEL1
Vccci
AGND
VinL
VinR
Vcom
SSPEND
Vddi
DGND
DOUT
DIN
Vccxi
AGNDX
XTI
XTO
Vccp2i
AGNDP
Vccp1i
VoutL
VoutR
VSX-D2011 ONLY
A+15V
C1857
0.01
C1858
0.01
A-15V
JA1802 (1/2)
AKB7131
IN 3
(CD-R/TAPE1)
IN 4
(CD)
JA1802 (2/2)
AKB7131
C1883
0.01
C1884
0.01
R1881
75
R1882
75
R1883
47k
R1884
47k
R1885
2.2k
R1886
2.2k
C1885
47p
C1886
47p
IC1881
IC1881(3/6)
IC1881(5/6)
IC1881(6/6)
IC1881(2/6)
IC1881(4/6)
TC74HCU04AF
R1887
100
R1888
100
R1889
100
R1890
100
C1887
470p
C1888
0.01
F1881
DTF1064
C1890
47/16
C1897
0.01
DSP+5V
GNDD
CN1801
52045-0945
D5G
OPT IN1
D5G
OPT IN2
D5G
OPT OUT1
D5G
OPT OUT2
DSP+5V
E CN1701
(D)
DSP+5V
A+15V
A-15V
DOUT
DIN
SSPEND
GDA2
CN1802
VKN1196
CN1803
AKP7068
DSP+5V
DSP+5V
D5G
D5G
IN1
G
IN2
G
IN3
G
IN4
G
IN5
G
IN6
G
OUT1
G
OUT2
G
A+15V
GDA
A-15V
GDA
DRST
DSDP
DLCK
USBPB
USBSS
R 1/2 CN101
W CN2406

G

3.9 VIDEO ASSY

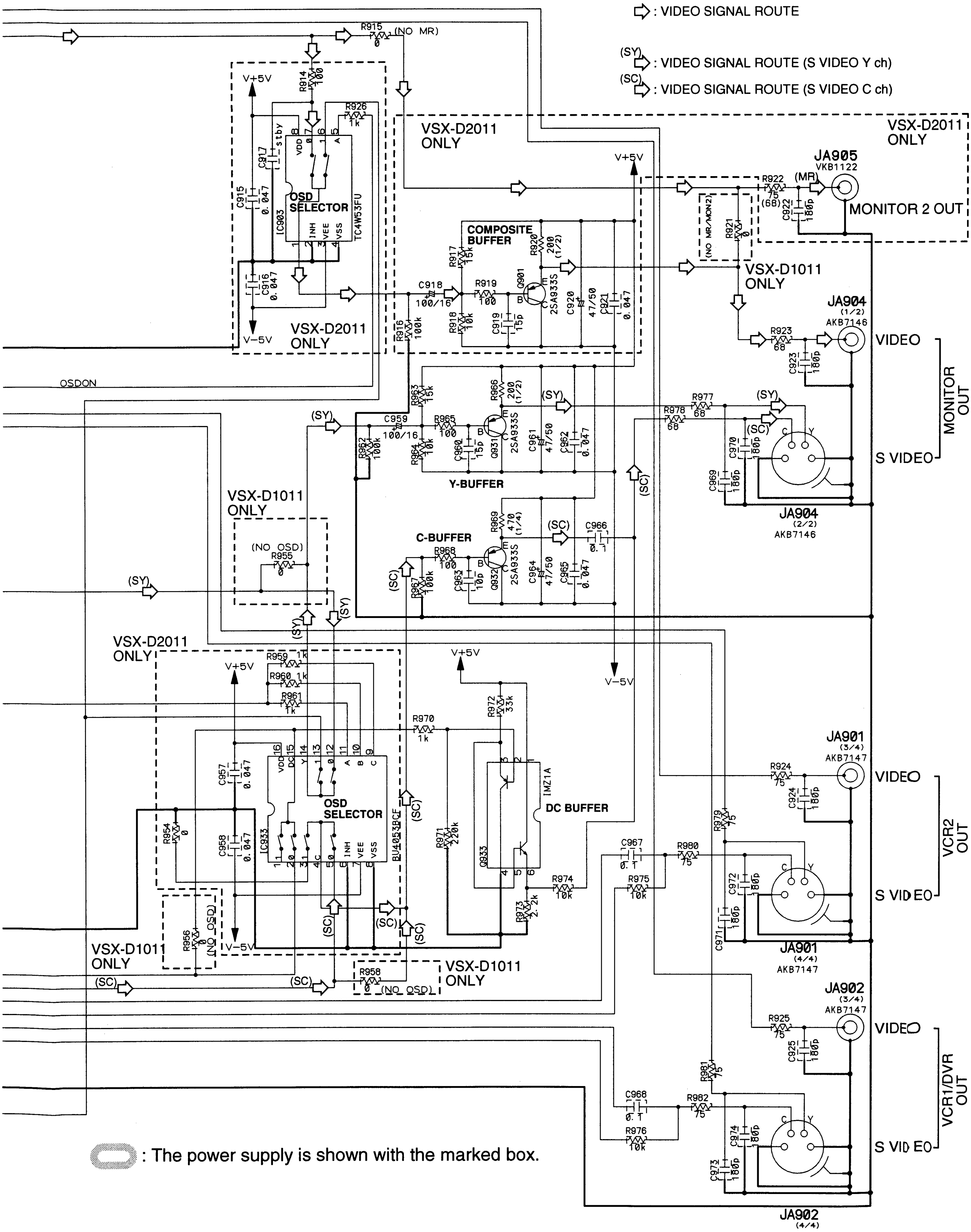

H
VIDEO ASSY
(VSX-D2011 : AWX8001)
(VSX-D1011 : AWX8002)
JA901 (1/4) AKB7147
VIDEO
VCR1/DVR
S VIDEO
IN
JA901 (2/4) AKB7147
JA902 (1/4) AKB7147
VCR2
JA902 (2/4) AKB7147
JA903 (1/4) AKB7147
DVD/LD IN
JA903 (2/4) AKB7147
JA903 (3/4) AKB7147
TV/SAT IN
JA903 (4/4) AKB7147
GND
C901 100/10
C902 100/10
C903 100/10
C904 100/10
C931 0.1
C932 100/10
C934 0.1
C935 100/10
C937 0.1
C938 100/10
C940 0.1
C941 100/10
R901 75
R902 75
R903 75
R904 75
R931 75
R932 75
R933 75
R934 75
R935 75
R936 75
R937 75
R938 75
R991 0
R992 0
R993 0
C933 1/50
C936 1/50
C939 1/50
C942 1/50
(SC)
(SY)
V+5V
V-5V
C905 100/16
C906 100/16
C907 0.047
C908 0.047
IC901
MAIN FUNCTION (COMP)
NJM2296M
VCC OUT2 SW1 IN1 GND OUT3 SW2 IN2
OUT1 SW5 IN5 SW3 IN4 SW4 IN3 VEE
R905 100
C983 100p
R906 1k
R907 1k
R908 1k
R909 1k
R910 1k
SW1
SW2
SW3
SW4
SW5
IC931
MAIN FUNCTION (Y)
C945 100/16
C946 100/16
C947 0.047
C948 0.047
C949 stby
C982 100p
R940 100
R941 100
R942 1k
R943 1k
R944 1k
R945 1k
R946 1k
OSDON
IC932
MAIN FUNCTION (C) DC SELECTOR
NJM2596M
SW3 DCIN5 IN5 SW5 DCIN3 IN3 VCC DCIN2 IN2 SW1 IN1 DCIN1
IN4 DCIN4 SW4 DCOUT3 OUT3 VEE DCOUT2 OUT2 SW2 OUT1 DCOUT1 GND
C943 0.01
C944 0.1
C951 100/16
C952 100/16
C953 0.047
C954 0.047
C955 33p
C981 100p
R939 1k
R947 100
R948 100
R949 1k
R950 1k
R951 1k
R952 1k
R953 1k
D901 DAN202K
CNT
R994 0
CN901 AKP7071
V+5V V-5V VG VG FV FVY FVC SW5 SW4 SW3 SW2 OSDON OSD 2279-2 2279-1
MRSW2 MRSW1
W CN2405
H

IC902

SW1	SW2	MUTE1	MR
L	H	H	TV
H	L	H	VCR1
H	H	H	DVD
L	L	L	MUTE

IC901, 931, 932

SW1	SW2	SW3	SW4	SW5	MON	VCR1	VCR2
L	H	(L)	(L)	H	VCR1	MUTE	VCR1
H	L	(H)	L	H	VCR2	VCR2	MUTE
H	H	(H)	L	H	DVD	DVD	DVD
H	H	L	H	H	TV	TV	TV
H	H	H	H	H	VIDEO	VIDEO	VIDEO
L	L	L	L	L	MUTE	MUTE	MUTE


R915 0 (NO MR)
R914 100
V+5V
V-5V
R926 1k
C917 stby
C915 0.047
C916 0.047
IC903
OSD SELECTOR
TC4W53FU
VDD 8
7
6
A 5
INH 2
VEE 3
VSS 4
VSX-D2011 ONLY
OSDON
JA905
VKB1122
R922 75 (68)
(MR)
C922 180p
MONITOR 2 OUT
(NO MR/MON2)
R921 0
VSX-D1011 ONLY
COMPOSITE BUFFER
R917 15k
R918 10k
R916 100k
C918 100/16
R919 100
C919 15p
Q901
2SA933S
R920 200 (1/2)
C920 47/50
C921 0.047
JA904 (1/2)
AKB7146
R923 68
C923 180p
VIDEO
MONITOR OUT
S VIDEO
R963 15k
R966 200 (1/2)
(SY)
(SC)
C959 100/16
R962 100k
R964 10k
R965 100
C960 15p
Q931
2SA933S
C961 47/50
C962 0.047
Y-BUFFER
R977 68
R978 68
C970 180p
C969 180p
JA904 (2/2)
AKB7146
C-BUFFER
R969 470 (1/4)
C966 0.1
R968 100
R967 100k
C963 10p
Q932
2SA933S
C964 47/50
C965 0.047
(NO OSD)
R955 0
R959 1k
R960 1k
R961 1k
R970 1k
R972 33k
C957 0.047
C958 0.047
R954 0
IC933
OSD SELECTOR
BU4053BCF
VDD 16
DC 15
Y 14
13
12
A 11
B 10
C 9
INH 6
VEE 7
VSS 8
R971 220k
Q933
IMZ1A
DC BUFFER
R973 2.2k
R974 10k
R975 10k
C967 0.1
R980 75
R979 75
JA901 (3/4)
AKB7147
R924 75
C924 180p
C972 180p
C971 180p
JA901 (4/4)
AKB7147
VCR2 OUT
R956 0 (NO OSD)
R958 0 (NO OSD)
JA902 (3/4)
AKB7147
R925 75
C925 180p
R981 75
C968 0.1
R982 75
R976 10k
C974 180p
C973 180p
JA902 (4/4)
AKB7147
VCR1/DVR OUT
A
B
C
D
E
F

⇨ : VIDEO SIGNAL ROUTE

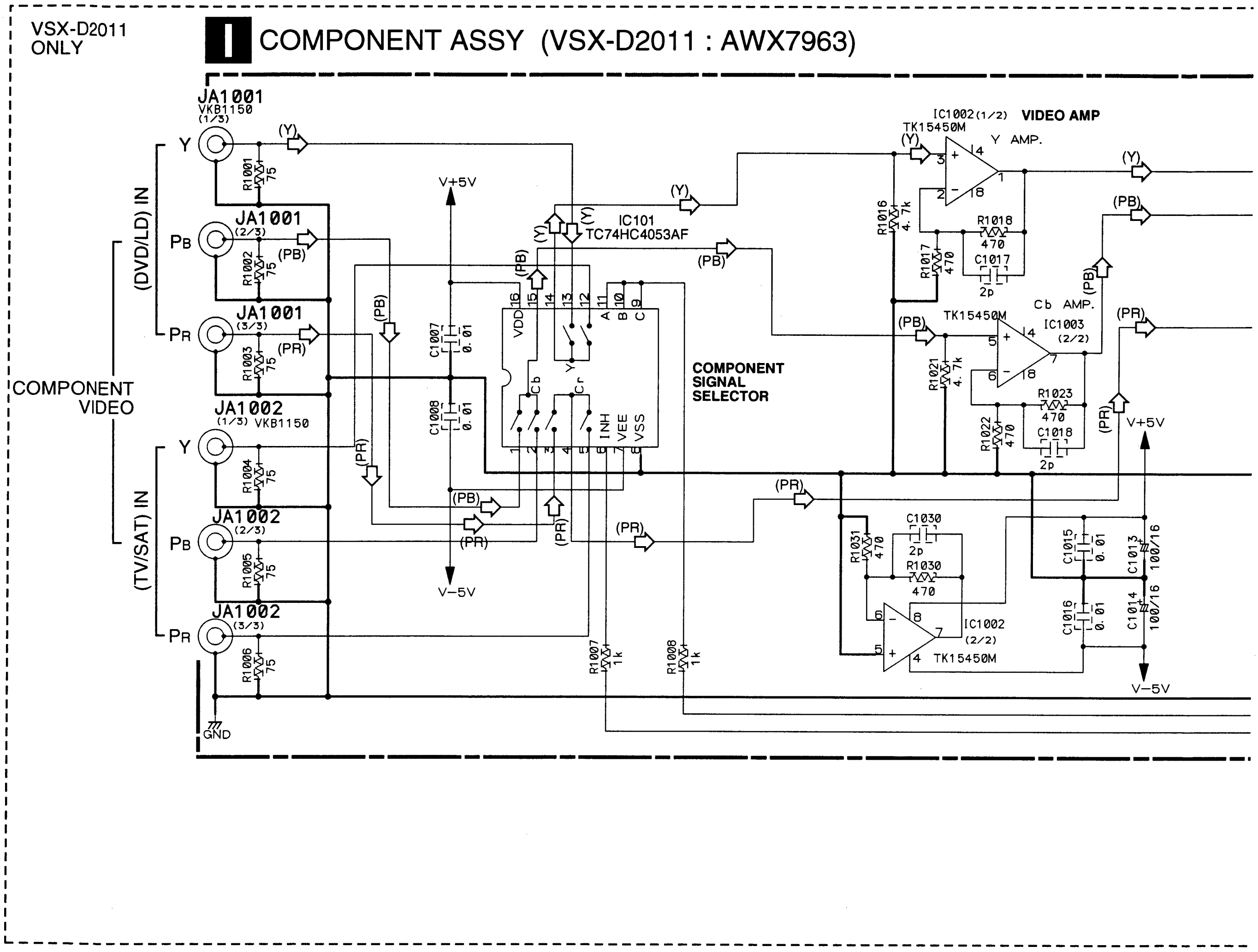
(SY)⇨ : VIDEO SIGNAL ROUTE (S VIDEO Y ch)

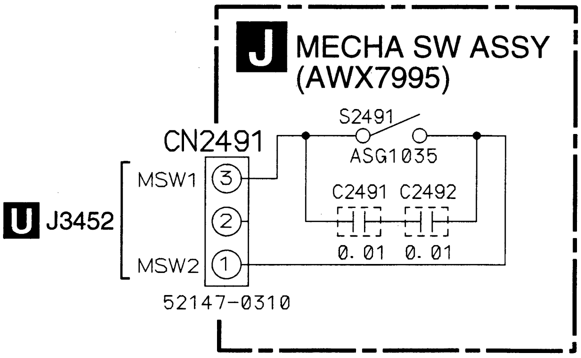
(SC)⇨ : VIDEO SIGNAL ROUTE (S VIDEO C ch)

▭ : The power supply is shown with the marked box.

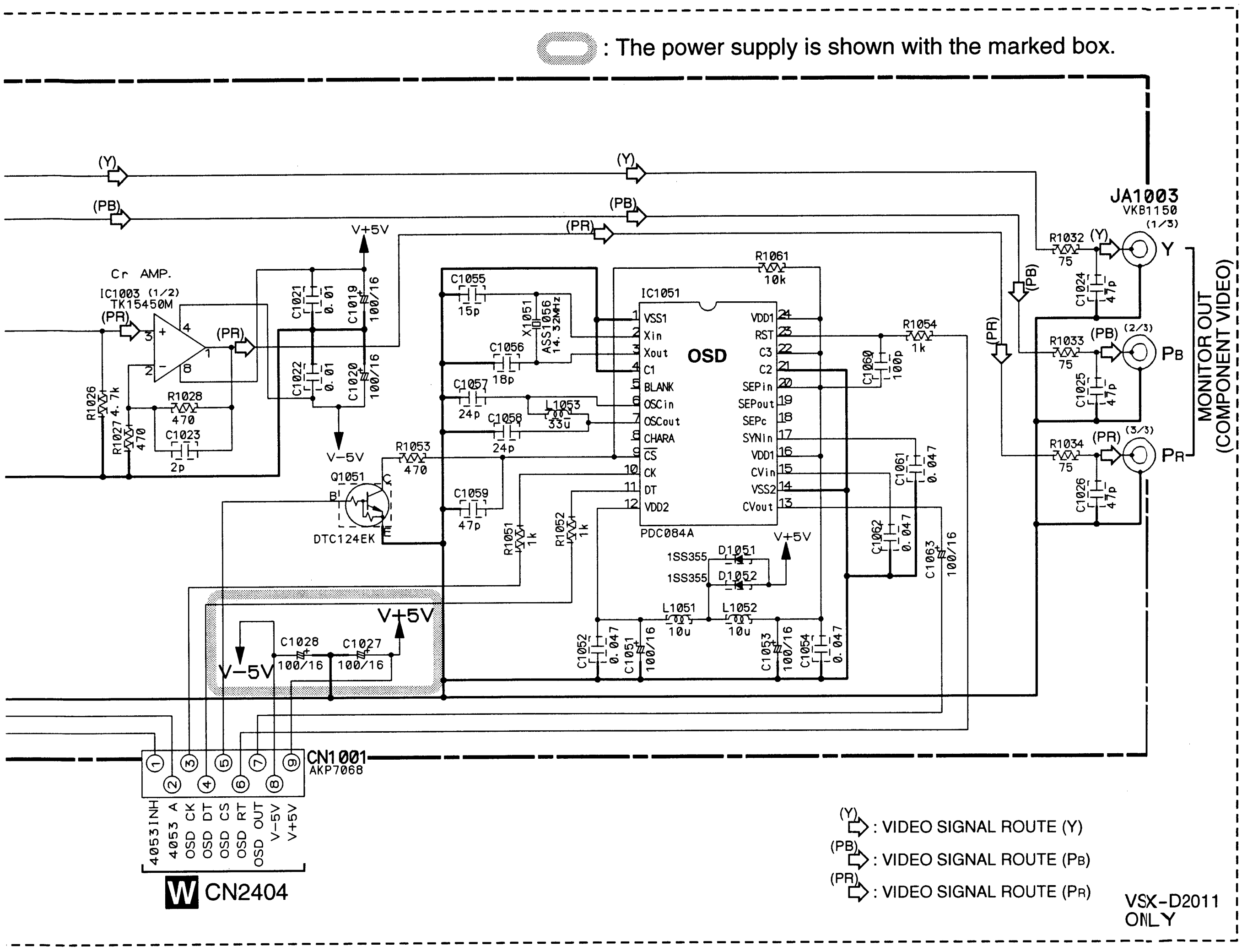
H

3.10 COMPONENT and MECHA SW ASSYS

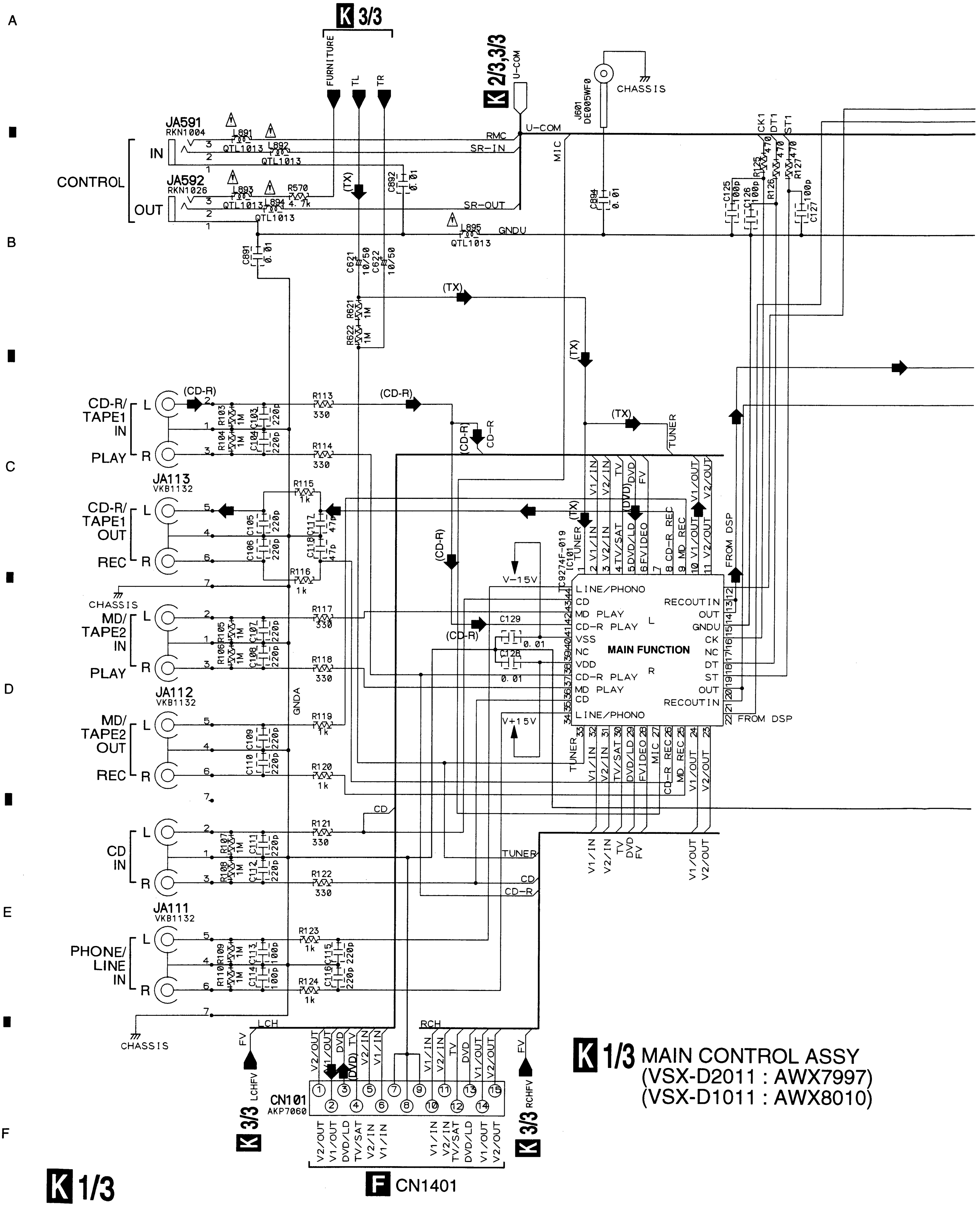

VSX-D2011
ONLY
I COMPONENT ASSY (VSX-D2011 : AWX7963)
JA1001
VKB1150
(1/3)
Y
(2/3)
PB
(3/3)
PR
(DVD/LD) IN
COMPONENT
VIDEO
JA1002
(1/3) VKB1150
(TV/SAT) IN
R1001 75
R1002 75
R1003 75
R1004 75
R1005 75
R1006 75
GND
(Y)
(PB)
(PR)
V+5V
V-5V
C1007 0.01
C1008 0.01
IC101
TC74HC4053AF
COMPONENT
SIGNAL
SELECTOR
VDD
A
B
C
Cb
Cr
INH
VEE
VSS
R1007 1k
R1008 1k
IC1002(1/2) VIDEO AMP
TK15450M
Y AMP.
R1016 4.7k
R1017 470
R1018 470
C1017 2p
Cb AMP.
IC1003 (2/2)
R1021 4.7k
R1022 470
R1023 470
C1018 2p
R1031 470
C1030 2p
R1030 470
IC1002 (2/2)
TK15450M
C1015 0.01
C1016 0.01
C1013 100/16
C1014 100/16


J MECHA SW ASSY
(AWX7995)
S2491
ASG1035
CN2491
MSW1
MSW2
U J3452
C2491 C2492
0.01 0.01
52147-0310

I J

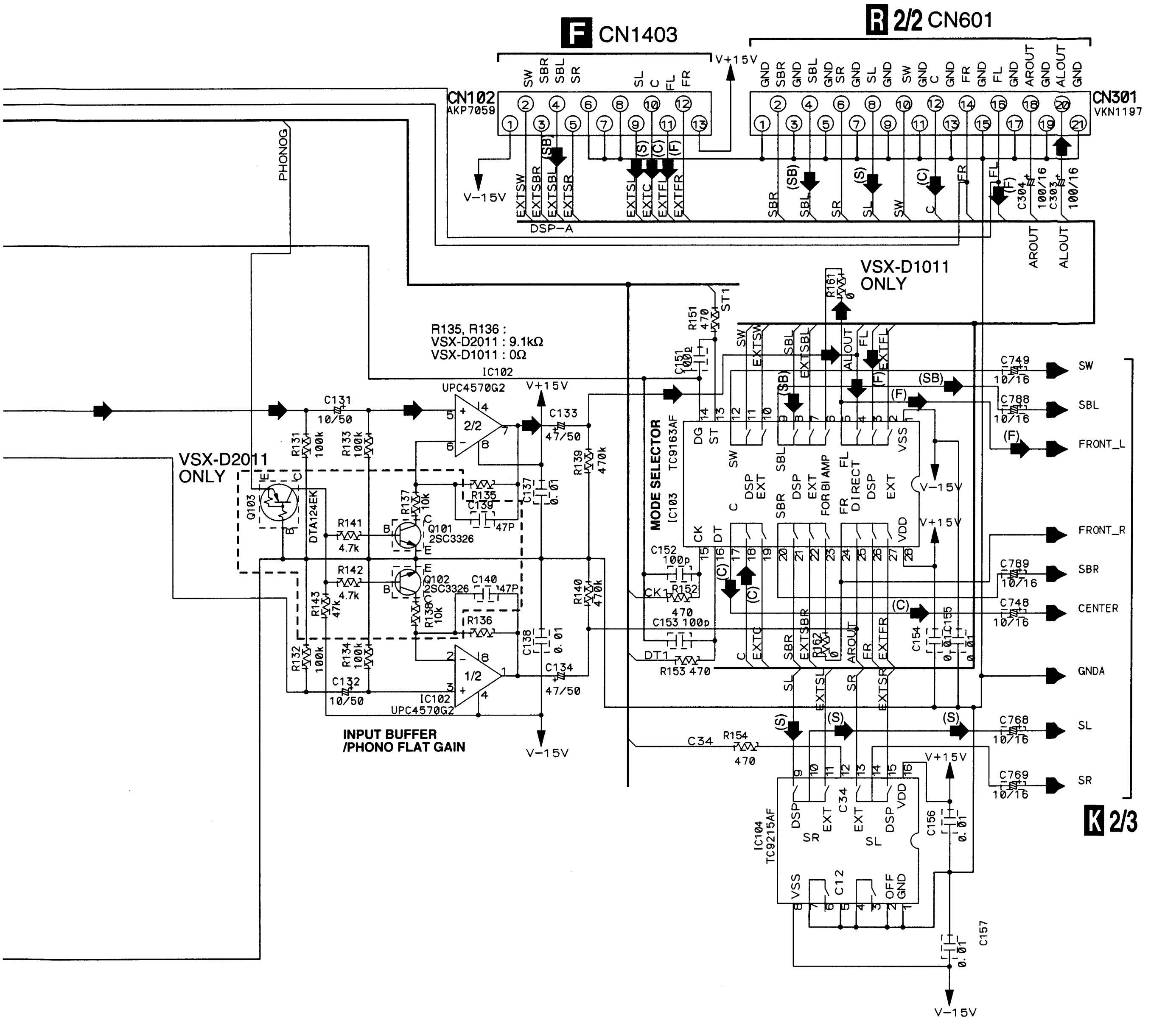

: The power supply is shown with the marked box.
(Y)
(PB)
(PR)
V+5V
Cr AMP.
IC1003 (1/2)
TK15450M
R1026 4.7k
R1027 470
R1028 470
C1023 2p
C1021 0.01
C1019 100/16
C1022 0.01
C1020 100/16
V-5V
Q1051
DTC124EK
R1053 470
C1055 15p
X1051 ASS1056 14.32MHz
C1056 18p
C1057 24p
C1058 24p
L1053 33u
C1059 47p
R1051 1k
R1052 1k
IC1051
OSD
PDC084A
VSS1
Xin
Xout
C1
BLANK
OSCin
OSCout
CHARA
CS
CK
DT
VDD2
VDD1
RST
C3
C2
SEPin
SEPout
SEPc
SYNIn
VDD1
CVin
VSS2
CVout
R1061 10k
R1054 1k
C1060 100p
C1061 0.047
C1062 0.047
C1063 100/16
1SS355 D1051
1SS355 D1052
L1051 10u
L1052 10u
C1052 0.047
C1051 100/16
C1053 100/16
C1054 0.047
V+5V
V-5V
C1028 100/16
C1027 100/16
CN1001
AKP7068
4053INH
4053 A
OSD CK
OSD DT
OSD CS
OSD RT
OSD OUT
V-5V
V+5V
W CN2404
JA1003
VKB1150
R1032 75
C1024 47p
R1033 75
C1025 47p
R1034 75
C1026 47p
(1/3) Y
(2/3) PB
(3/3) PR
MONITOR OUT (COMPONENT VIDEO)
(Y) : VIDEO SIGNAL ROUTE (Y)
(PB) : VIDEO SIGNAL ROUTE (PB)
(PR) : VIDEO SIGNAL ROUTE (PR)
VSX-D2011 ONLY

3.11 MAIN CONTROL ASSY (1/3)


K 3/3
FURNITURE
TL
TR
K 2/3,3/3
U-COM
J601
DE005WF0
CHASSIS
JA591
RKN1004
IN
CONTROL
JA592
RKN1026
OUT
L891
L892
QTL1013
L893
L894
R570
4.7k
RMC
SR-IN
SR-OUT
C892
0.01
(TX)
U-COM
MIC
C894
0.01
L895
QTL1013
GNDU
C891
0.01
C621
10/50
C622
10/50
R621
1M
R622
1M
CK1
DT1
ST1
R125
470
R126
470
R127
470
C125
100p
C126
100p
C127
100p
CD-R/
TAPE1
IN
PLAY
(CD-R)
R103
1M
R104
1M
C103
220p
C104
220p
R113
330
R114
330
CD-R
TUNER
JA113
VKB1132
CD-R/
TAPE1
OUT
REC
C105
220p
C106
220p
R115
1k
R116
1k
C117
47p
C118
47p
CHASSIS
MD/
TAPE2
IN
PLAY
R105
1M
R106
1M
C107
220p
C108
220p
R117
330
R118
330
JA112
VKB1132
MD/
TAPE2
OUT
REC
C109
220p
C110
220p
R119
1k
R120
1k
GNDA
CD
IN
R107
1M
R108
1M
C111
220p
C112
220p
R121
330
R122
330
JA111
VKB1132
PHONE/
LINE
IN
R109
1M
R110
1M
C113
100p
C114
100p
R123
1k
R124
1k
C115
220p
C116
220p
CHASSIS
LCH
RCH
FV
V-15V
V+15V
C129
0.01
C128
0.01
TC9274F-019
IC101
MAIN FUNCTION
LINE/PHONO
CD
MD PLAY
CD-R PLAY
VSS
NC
VDD
RECOUTIN
OUT
GNDU
CK
NC
DT
ST
L
R
1 TUNER
2 V1/IN
3 V2/IN
4 TV/SAT
5 DVD/LD
6 FVIDEO
7
8 CD-R REC
9 MD REC
10 V1/OUT
11 V2/OUT
FROM DSP
V1/IN
V2/IN
TV
DVD
FV
(DVD)
V1/OUT
V2/OUT
TUNER
CD
CD-R
CN101
AKP7060
K 3/3 LCHFV
K 3/3 RCHFV
V2/OUT
V1/OUT
DVD/LD
TV/SAT
V2/IN
V1/IN
F CN1401

K 1/3 MAIN CONTROL ASSY
(VSX-D2011 : AWX7997)
(VSX-D1011 : AWX8010)

K 1/3


F CN1403
R 2/2 CN601
CN102
AKP7059
CN301
VKN1197
V+15V
V−15V
SW SBR SBL SR SL C FL FR
GND SBR GND SBL GND SR GND SL GND SW GND C GND FR GND FL GND AROUT GND ALOUT GND
EXTSW EXTSBR EXTSBL EXTSR
EXTSL EXTC EXTFL EXTFR
DSP−A
PHONOG
C304 100/16
C303 100/16
AROUT
ALOUT
VSX-D1011 ONLY
R161 0
R135, R136 :
VSX-D2011 : 9.1kΩ
VSX-D1011 : 0Ω
IC102
UPC4570G2
2/2
1/2
C131 10/50
C132 10/50
C133 47/50
C134 47/50
R131 100k
R132 100k
R133 100k
R134 100k
R139 470k
R140 470k
C137 0.01
C138 0.01
R135
R136
C139 47P
C140 47P
R137 10k
R138 10k
R141 4.7k
R142 4.7k
R143 47k
Q101 2SC3326
Q102 2SC3326
Q103 DTA124EK
VSX-D2011 ONLY
INPUT BUFFER
/PHONO FLAT GAIN
R151 470
ST1
C151 100p
C152 100p
C153 100p
R152 470
R153 470
CK1
DT1
MODE SELECTOR
IC103 TC9163AF
DG ST CK DT
DSP EXT
DSP EXT FOR BI AMP
DIRECT DSP EXT
VSS VDD
R162 0
C154 0.01
C155 0.01
C34
R154 470
IC104 TC9215AF
DSP EXT SR SL
C12
OFF GND
C156 0.01
C157 0.01
C749 10/16
C788 10/16
C789 10/16
C748 10/16
C768 10/16
C769 10/16
SW
SBL
FRONT_L
FRONT_R
SBR
CENTER
GNDA
SL
SR
K 2/3

➡ : AUDIO SIGNAL ROUTE (Lch)

(CD-R)➡ : AUDIO SIGNAL ROUTE (CD-R Lch)

(TX)➡ : AUDIO SIGNAL ROUTE (TUNER Lch)

(DVD)➡ : AUDIO SIGNAL ROUTE (DVD Lch)

(F)➡ : AUDIO SIGNAL ROUTE (FRONT Lch)

(S)➡ : AUDIO SIGNAL ROUTE (SURROUND Lch)

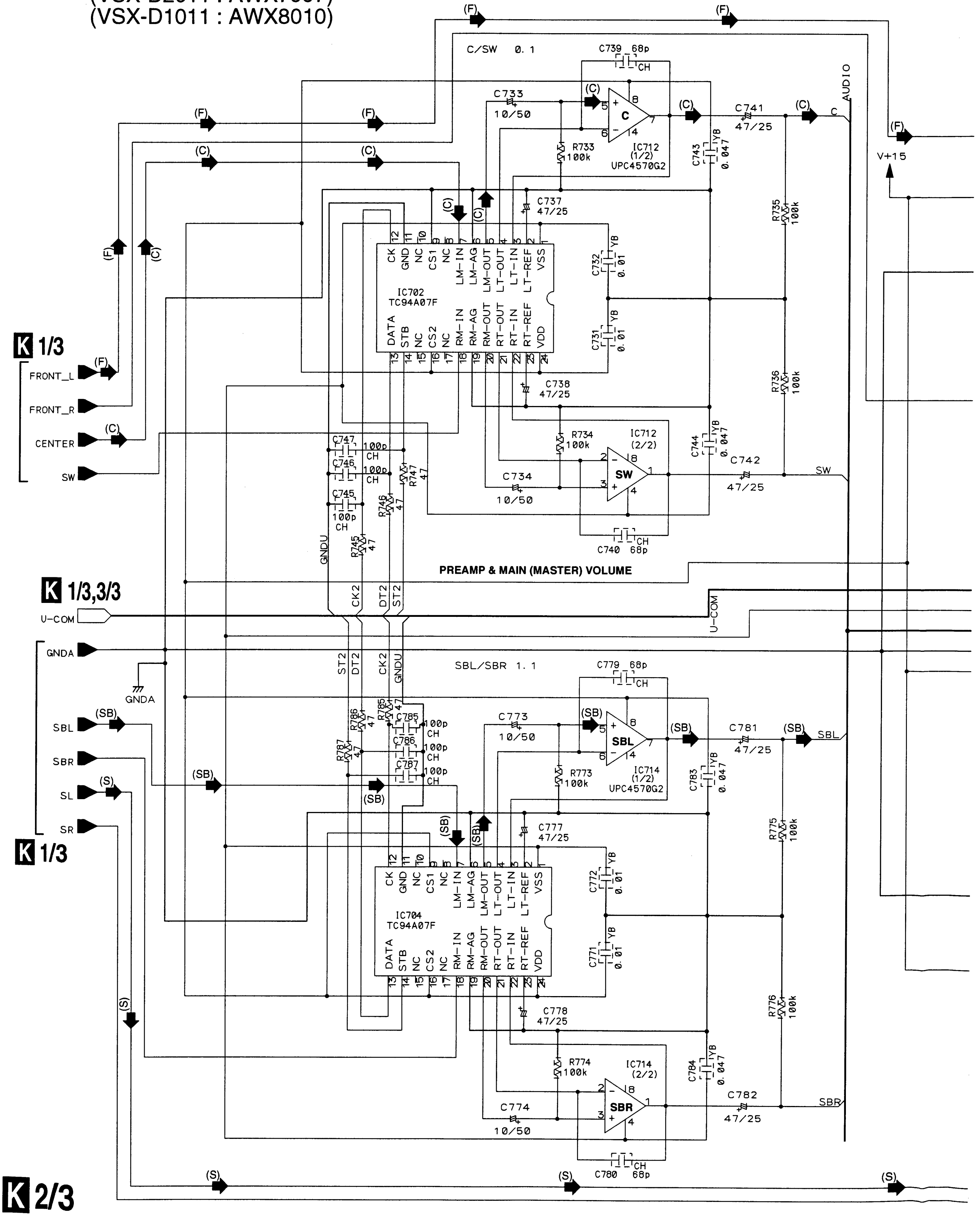
(SB)➡ : AUDIO SIGNAL ROUTE (SURROUND BACK Lch)

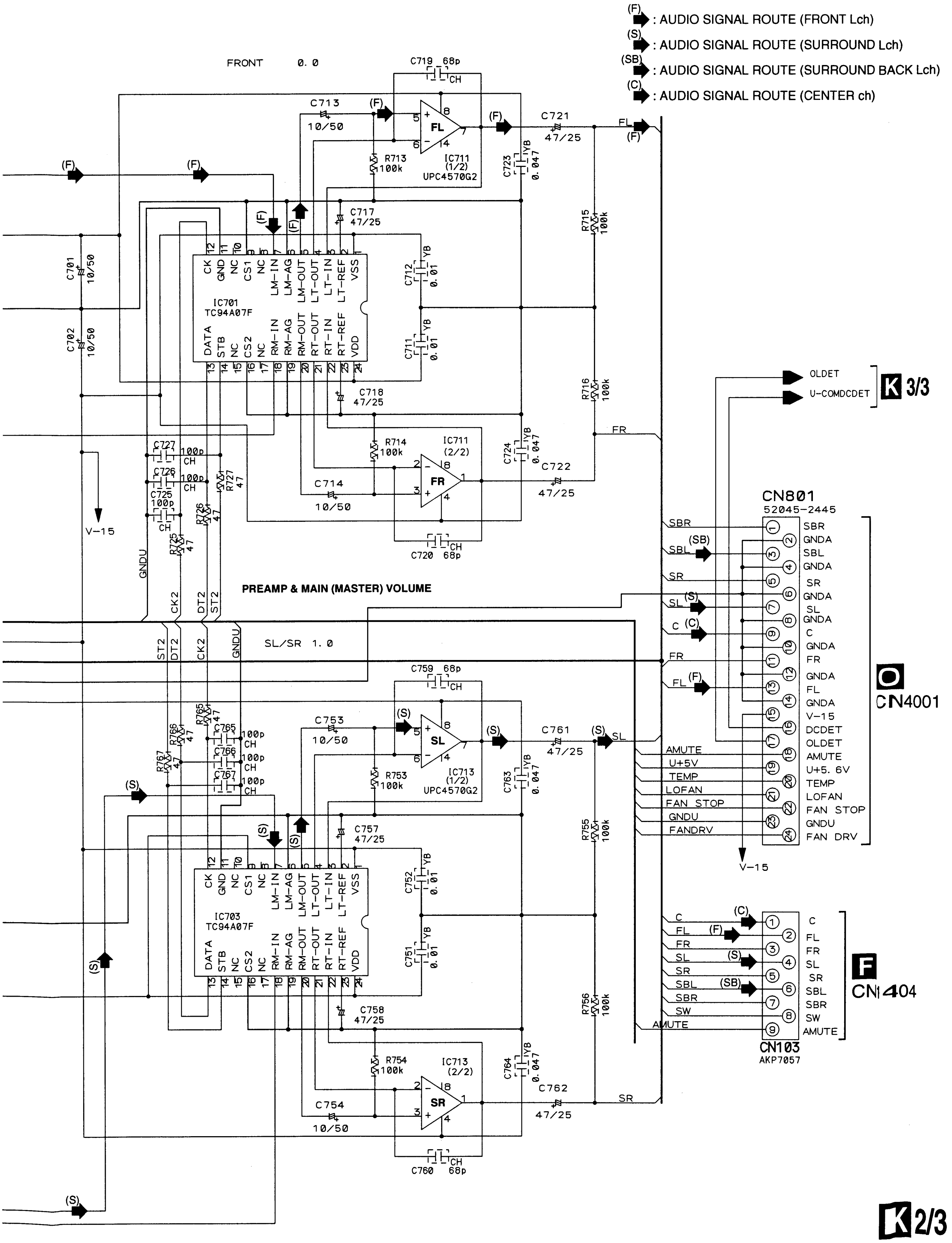
(C)➡ : AUDIO SIGNAL ROUTE (CENTER ch)

K 1/3

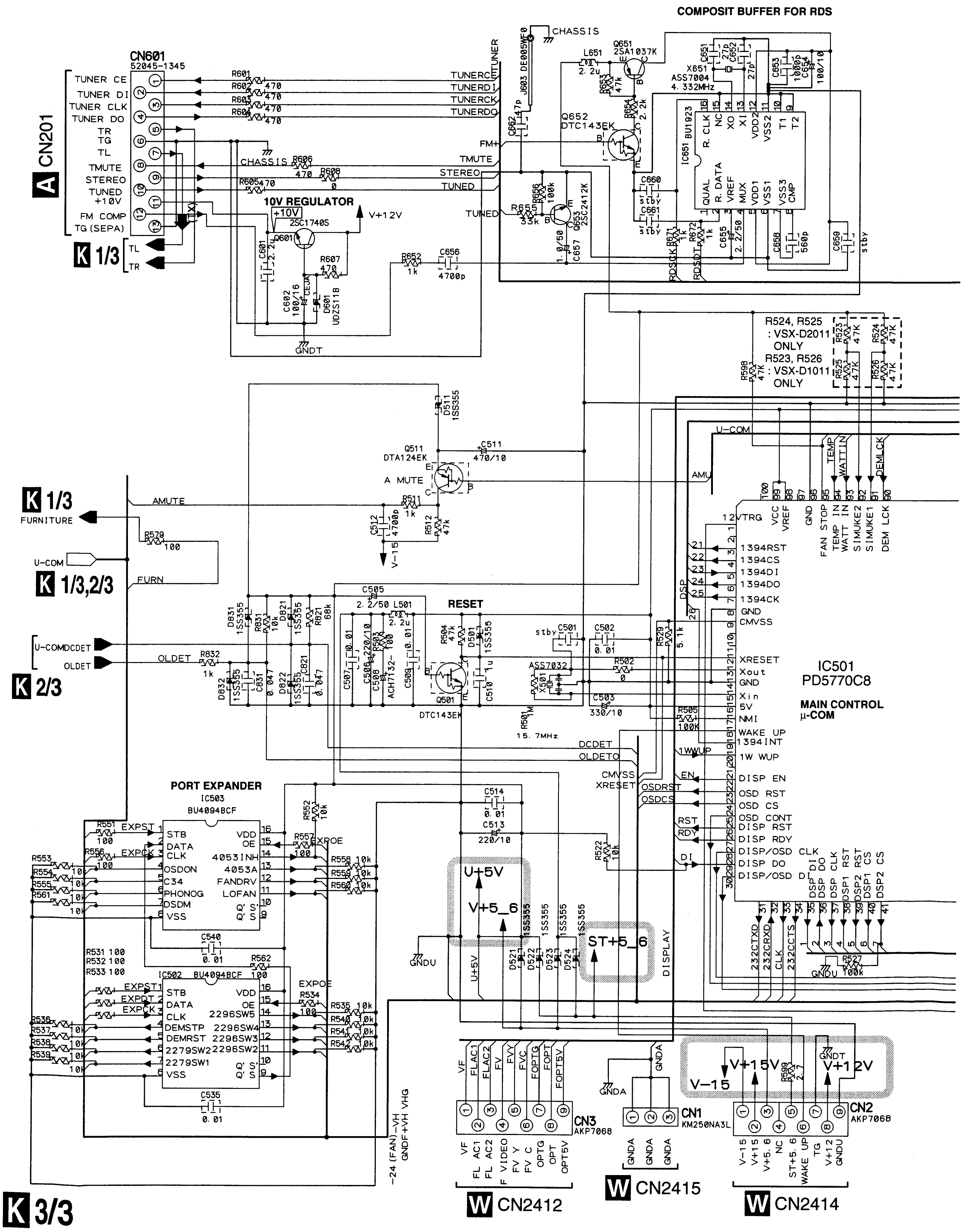
3.12 MAIN CONTROL ASSY (2/3)

K 2/3 MAIN CONTROL ASSY
(VSX-D2011 : AWX7997)
(VSX-D1011 : AWX8010)

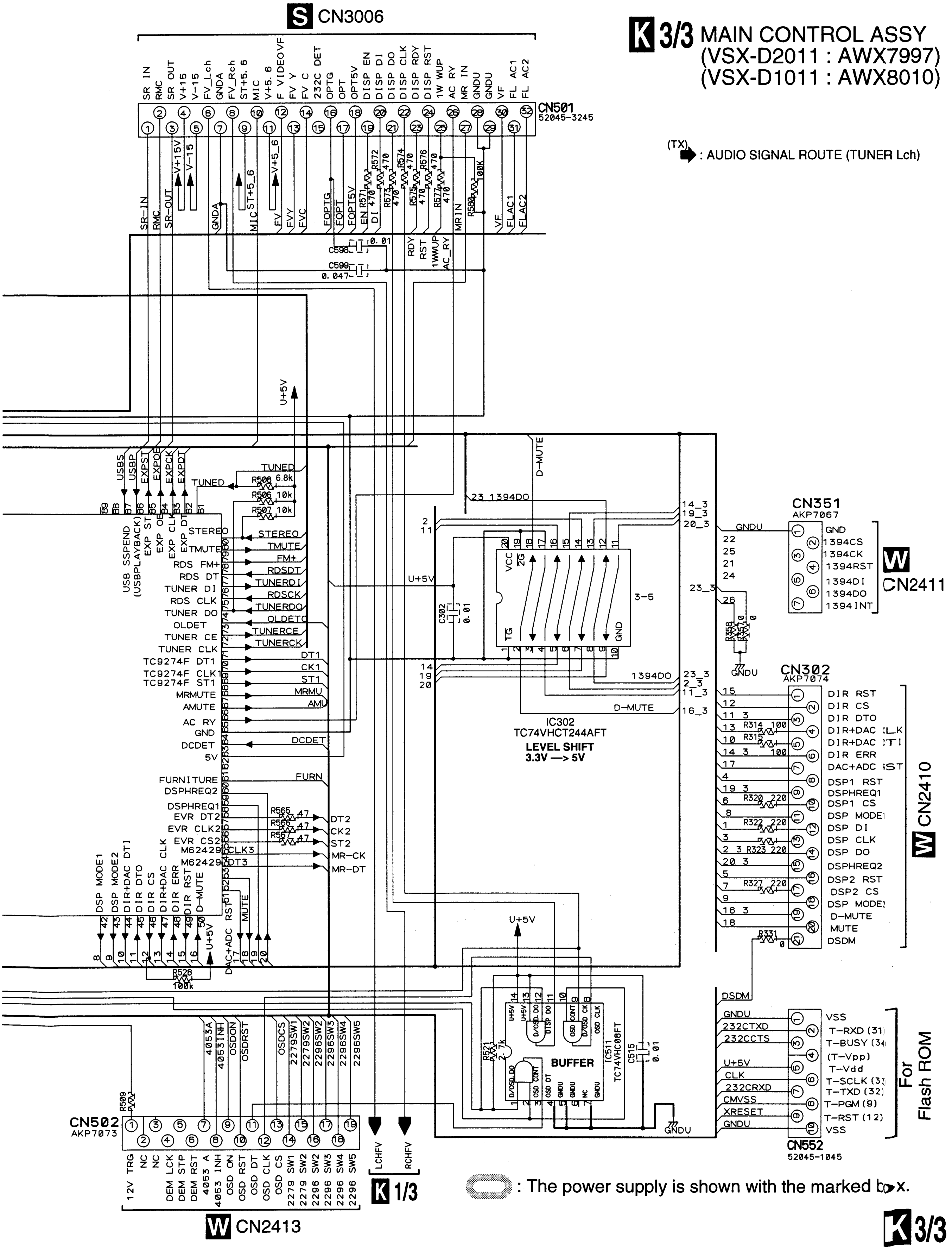

A
B
C
D
E
F
K 1/3
FRONT_L
FRONT_R
CENTER
SW
K 1/3,3/3
U-COM
GNDA
GNDA
SBL
SBR
SL
SR
K 1/3
K 2/3
(F)
(C)
(SB)
(S)
C/SW 0.1
C739 68p CH
C733 10/50
R733 100k
IC712 (1/2) UPC4570G2
C
C741 47/25
C743 YB 0.047
AUDIO
V+15
C737 47/25
R735 100k
C732 YB 0.01
C731 YB 0.01
IC702 TC94A07F
CK GND NC CS1 NC LM-IN LM-AG LM-OUT LT-OUT LT-IN LT-REF VSS
DATA STB NC CS2 NC RM-IN RM-AG RM-OUT RT-OUT RT-IN RT-REF VDD
C738 47/25
R736 100k
C747 100p CH
C746 100p CH
C745 100p CH
R747 47
R746 47
R745 47
R734 100k
IC712 (2/2)
SW
C744 YB 0.047
C742 47/25
C734 10/50
C740 68p CH
GNDU
CK2 DT2 ST2
PREAMP & MAIN (MASTER) VOLUME
U-COM
ST2 DT2 CK2 GNDU
SBL/SBR 1.1
C779 68p CH
C773 10/50
SBL
R773 100k
IC714 (1/2) UPC4570G2
C781 47/25
C783 YB 0.047
R786 47
R785 47
R787 47
C785 100p CH
C786 100p CH
C787 100p CH
C777 47/25
R775 100k
IC704 TC94A07F
C772 YB 0.01
C771 YB 0.01
C778 47/25
R776 100k
R774 100k
IC714 (2/2)
SBR
C784 YB 0.047
C782 47/25
C774 10/50
C780 68p CH


(F) : AUDIO SIGNAL ROUTE (FRONT Lch)
(S) : AUDIO SIGNAL ROUTE (SURROUND Lch)
(SB) : AUDIO SIGNAL ROUTE (SURROUND BACK Lch)
(C) : AUDIO SIGNAL ROUTE (CENTER ch)
FRONT 0.0
C719 68p CH
C713 10/50
FL
IC711 (1/2) UPC4570G2
C721 47/25
FL
C723 YB 0.047
R713 100k
C717 47/25
R715 100k
C701 10/50
C702 10/50
C712 YB 0.01
C711 YB 0.01
IC701 TC94A07F
CK GND NC CS1 NC LM-IN LM-AG LM-OUT LT-OUT LT-IN LT-REF VSS
DATA STB NC CS2 NC RM-IN RM-AG RM-OUT RT-OUT RT-IN RT-REF VDD
C718 47/25
R716 100k
FR
C727 100p CH
C726 100p CH
C725 100p CH
R727 47
R726 47
R725 47
V-15
R714 100k
IC711 (2/2)
C714 10/50
FR
C724 YB 0.047
C722 47/25
C720 68p CH
GNDU
CK2 DT2 ST2
PREAMP & MAIN (MASTER) VOLUME
ST2 DT2 CK2 GNDU
SL/SR 1.0
OLDET
U-COMDCDET
K 3/3
CN801 52045-2445
SBR GNDA SBL GNDA SR GNDA SL GNDA C GNDA FR GNDA FL GNDA V-15 DCDET OLDET AMUTE U+5.6V TEMP LOFAN FAN STOP GNDU FAN DRV
AMUTE U+5V TEMP LOFAN FAN STOP GNDU FANDRV
O CN4001
C759 68p CH
C753 10/50
SL
IC713 (1/2) UPC4570G2
C761 47/25
SL
C763 YB 0.047
R753 100k
R765 47
R766 47
R767 47
C765 100p CH
C766 100p CH
C767 100p CH
C757 47/25
R755 100k
V-15
C752 YB 0.01
C751 YB 0.01
IC703 TC94A07F
C758 47/25
R756 100k
R754 100k
IC713 (2/2)
SR
C754 10/50
C764 YB 0.047
C762 47/25
SR
C760 68p CH
C FL FR SL SR SBL SBR SW AMUTE
CN103 AKP7057
F CN1404
K 2/3

3.13 MAIN CONTROL ASSY (3/3)


COMPOSIT BUFFER FOR RDS
CN601
52045-1345
A CN201
TUNER CE
TUNER DI
TUNER CLK
TUNER DO
TR
TG
TL
TMUTE
STEREO
TUNED
+10V
FM COMP
TG (SEPA)
K 1/3
TL
TR
R601 470
R602 470
R603 470
R604 470
TUNERCE
TUNERDI
TUNERCK
TUNERDO
FM+
TMUTE
STEREO
TUNED
CHASSIS
R606 470
R608 0
R605 470
10V REGULATOR
+10V
V+12V
2SC1740S
Q601
C601 2.2u
C602 100/16
D601 UDZS11B
R607 470
R652 1k
C656 4700p
GNDT
J603 DE005WF0
C662 47p
L651 2.2u
Q651 2SA1037K
R653 47k
R654 2.2k
Q652 DTC143EK
X651 ASS7004 4.332MHz
C651 27p
C652 27p
C653 1000p
C654 100/10
IC651 BU1923
R. CLK
NC
XO
XI
VDD2
VSS2
T1
T2
QUAL
R. DATA
VREF
MUX
VDD1
VSS1
VSS3
CMP
C660 stby
C661 stby
R656 100k
R655 33k
Q653 2SC2412K
C657 1.0/50
R671 1k
R672 1k
C655 2.2/50
C658 560p
C659 stby
RDSCK
RDSDT
R524, R525 : VSX-D2011 ONLY
R523, R526 : VSX-D1011 ONLY
R523 47K
R524 47K
R525 47K
R526 47K
R598 47K
U-COM
TEMP
WATTIN
DEMLCK
AMU
D511 1SS355
C511 470/10
Q511 DTA124EK
A MUTE
R511 1k
C512 4700p
R512 47k
V-15
K 1/3 FURNITURE
AMUTE
R579 100
U-COM
K 1/3,2/3
FURN
U-COM DCDET
OLDET
K 2/3
OLDET
R832 1k
D831 1SS355
R831 10k
D821 1SS355
R821 68k
D832 1SS355
C831 0.047
D822 1SS355
C821 0.047
C505 2.2/50
L501 2.2u
C507 0.01
C506 220/10
C508 ACH7132-100
C509 0.01
RESET
R504 47k
D501 1SS355
Q501 DTC143EK
C510 1u
stby C501
C502 0.01
ASS7032
X501
R502 0
R529 5.1k
C503 330/10
R501 1M
15.7MHz
R505 100K
DCDET
OLDETO
CMVSS
XRESET
OSDRST
OSDCS
1WWUP
EN
RST
RDY
DI
DSP
12 VTRG
VCC
VREF
GND
FAN STOP
TEMP IN
WATT IN
SIMUKE2
SIMUKE1
DEM LCK
1394RST
1394CS
1394DI
1394DO
1394CK
GND
CMVSS
XRESET
Xout
GND
Xin
5V
NMI
WAKE UP
1394INT
1W WUP
DISP EN
OSD RST
OSD CS
OSD CONT
DISP RST
DISP RDY
DISP/OSD CLK
DISP DO
DISP/OSD DI
IC501
PD5770C8
MAIN CONTROL
µ-COM
DSP DI
DSP DO
DSP CLK
DSP1 RST
DSP2 RST
DSP1 CS
DSP2 CS
232CTXD
232CRXD
CLK
232CCTS
R527 100k
GNDU
PORT EXPANDER
IC503
BU4094BCF
R551 100
EXPST
R556 100
EXPCK
STB
DATA
CLK
OSDON
C34
PHONOG
DSDM
VSS
VDD
OE
4053INH
4053A
FANDRV
LOFAN
R552 10k
R557 100
EXPOE
R558 10k
R559 10k
R560 10k
R553
R554
R555
R561
C540 0.01
R562 100
R531 100
R532 100
R533 100
IC502 BU4094BCF
EXPST1
EXPDT 2
EXPCK 3
STB
DATA
CLK
DEMSTP
DEMRST
2279SW2
2279SW1
VSS
VDD
OE
2296SW5
2296SW4
2296SW3
2296SW2
EXPOE
R534 100
R535 10k
R540 10k
R541 10k
R542 10k
R536
R537
R538
R539
C535 0.01
-24 (FAN) -VH
GNDF+VH VHG
K 3/3
C514 0.01
C513 220/10
R522 10k
U+5V
V+5_6
U+5V
D521 1SS355
D522 1SS355
D523 1SS355
D524 1SS355
ST+5_6
DISPLAY
GNDU
VF
FLAC1
FLAC2
FV
FVY
FVC
FOPTG
FOPT
FOPT5V
CN3
AKP7068
VF
FL AC1
FL AC2
F VIDEO
FV Y
FV C
OPTG
OPT
OPT5V
W CN2412
GNDA
GNDA
CN1
KM250NA3L
GNDA
GNDA
GNDA
W CN2415
V-15
V+15V
R599 2.7
GNDT
V+12V
CN2
AKP7068
V-15
V+15
V+5.6
NC
ST+5.6
WAKE UP
TG
V+12
GNDU
W CN2414

K 3/3 MAIN CONTROL ASSY
(VSX-D2011 : AWX7997)
(VSX-D1011 : AWX8010)

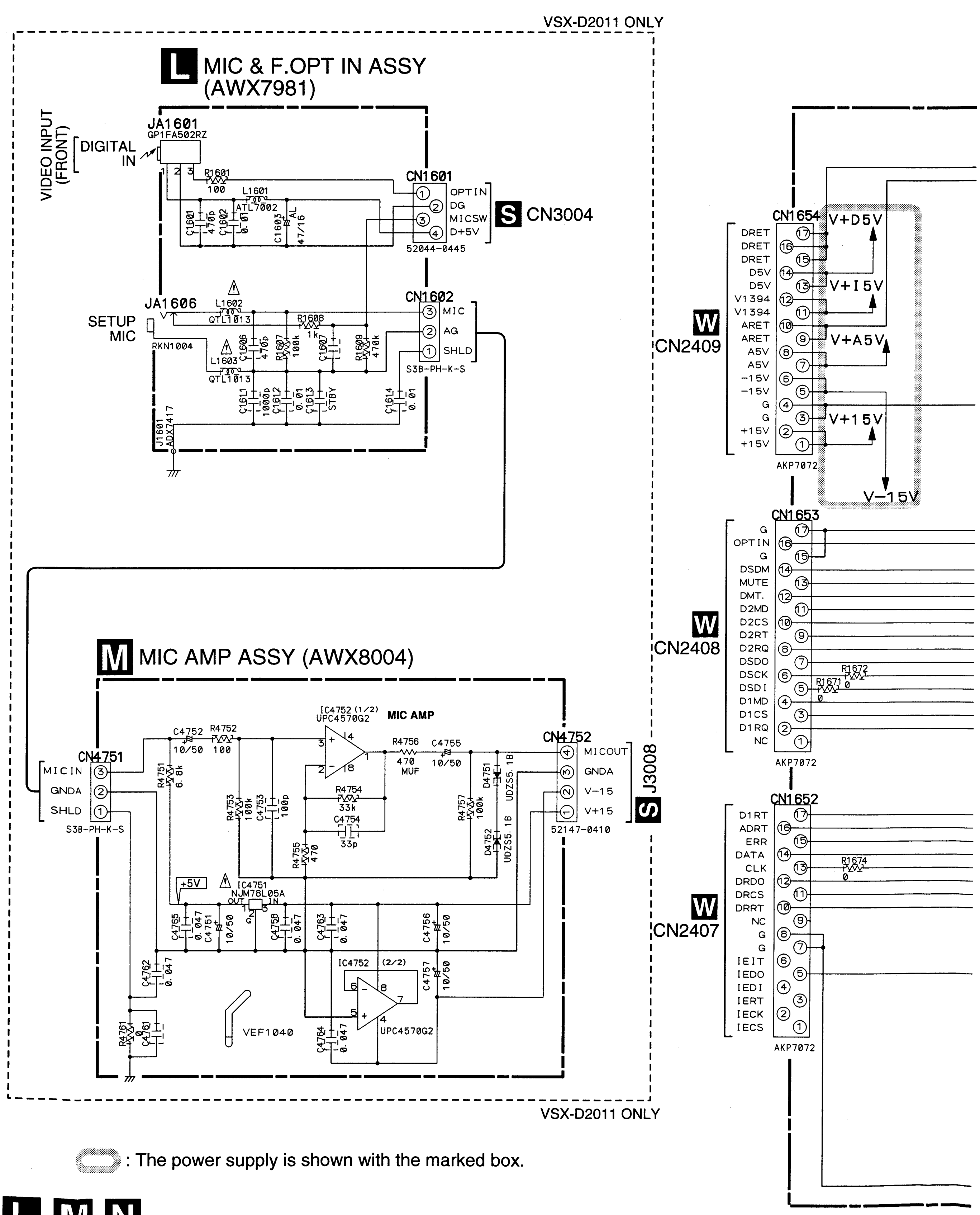

5
6
7
8
A
B
C
D
E
F
S CN3006
CN501
52045-3245
SR IN
RMC
SR OUT
V+15
V-15
FV_Lch
GNDA
FV_Rch
ST+5.6
MIC
V+5.6
F VIDEOVF
FV Y
FV C
232C DET
OPTG
OPT
OPT5V
DISP EN
DISP DI
DISP DO
DISP CLK
DISP RDY
DISP RST
1W WUP
AC RY
MR IN
GNDU
GNDU
VF
FL AC1
FL AC2
R571 470
R572 470
R573 470
R574 470
R575 470
R576 470
R577 470
R580 100K
C598 0.01
C599 0.047
U+5V
TUNED
R508 6.8k
R506 10k
R507 10k
STEREO
TMUTE
FM+
RDSDT
TUNERDI
RDSCK
TUNERDO
OLDETC
TUNERCE
TUNERCK
DT1
CK1
ST1
MRMU
AMU
DCDET
FURN
USB SSPEND (USBPLAYBACK)
EXP ST
EXP OE
EXP CLK
EXP DT
TUNER DI
RDS CLK
TUNER DO
OLDET
TUNER CE
TUNER CLK
TC9274F DT1
TC9274F CLK1
TC9274F ST1
MRMUTE
AMUTE
AC RY
GND
DCDET
5V
FURNITURE
DSPHREQ2
DSPHREQ1
EVR DT2
EVR CLK2
EVR CS2
M62429 CLK3
M62429 DT3
R565 47
R566 47
R567 47
DT2
CK2
ST2
MR-CK
MR-DT
DSP MODE1
DSP MODE2
DIR+DAC DTI
DIR DTO
DIR CS
DIR+DAC CLK
DIR ERR
DIR RST
D-MUTE
DAC+ADC RST
MUTE
R528 100k
D-MUTE
23 1394DO
IC302
TC74VHCT244AFT
LEVEL SHIFT
3.3V —> 5V
C302 0.01
1394DO
CN351
AKP7067
GNDU
GND
1394CS
1394CK
1394RST
1394DI
1394DO
1394INT
W CN2411
R358
R3510 0
CN302
AKP7074
DIR RST
DIR CS
DIR DTO
DIR+DAC CLK
DIR+DAC DTI
DIR ERR
DAC+ADC RST
DSP1 RST
DSPHREQ1
DSP1 CS
DSP MODE1
DSP DI
DSP CLK
DSP DO
DSPHREQ2
DSP2 RST
DSP2 CS
DSP MODE2
D-MUTE
MUTE
DSDM
R314 100
R315 100
R320 220
R322 220
R323 220
R327 220
R331 0
W CN2410
DSDM
IC511
TC74VHC08FT
BUFFER
R521 2.7k
C515 0.01
CN552
52045-1045
VSS
T-RXD (31)
T-BUSY (34)
(T-Vpp)
T-Vdd
T-SCLK (33)
T-TXD (32)
T-PGM (9)
T-RST (12)
VSS
232CTXD
232CCTS
232CRXD
CMVSS
XRESET
For Flash ROM
4053A
4053INH
OSDON
OSDRST
OSDCS
2279SW1
2279SW2
2296SW2
2296SW3
2296SW4
2296SW5
R509
CN502
AKP7073
12V TRG
NC
NC
DEM LCK
DEM STP
DEM RST
4053 A
4053 INH
OSD ON
OSD RST
OSD DT
OSD CLK
OSD CS
2279 SW1
2279 SW2
2296 SW2
2296 SW3
2296 SW4
2296 SW5
LCHFV
RCHFV
K 1/3
W CN2413

(TX) : AUDIO SIGNAL ROUTE (TUNER Lch)

: The power supply is shown with the marked box.

K 3/3

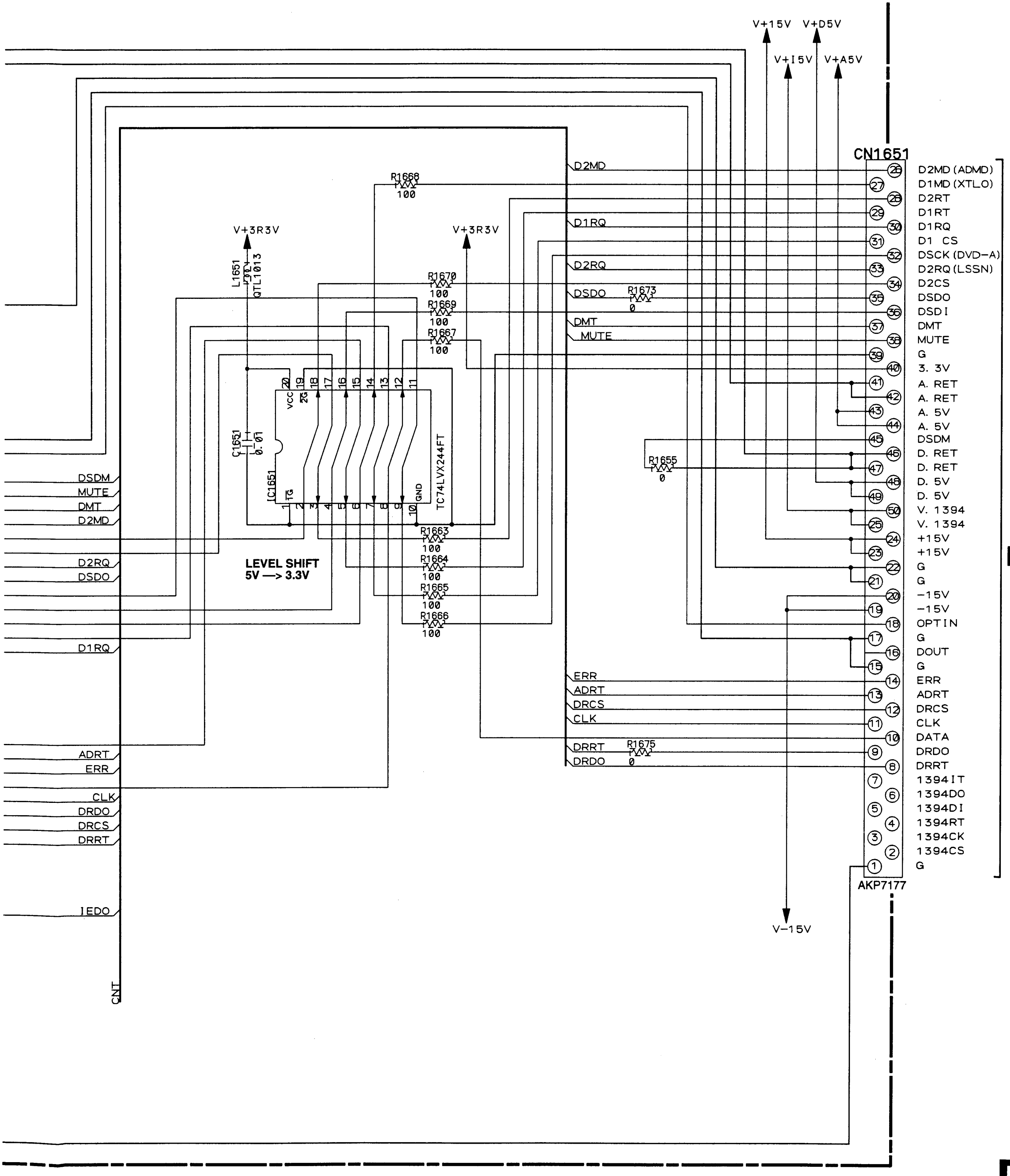
3.14 MIC & F.OPT IN, MIC AMP and DSP CONNECTION ASSYS


A
B
C
D
E
F
VSX-D2011 ONLY
L MIC & F.OPT IN ASSY (AWX7981)
VIDEO INPUT (FRONT)
DIGITAL IN
JA1601
GP1FA502RZ
R1601
100
L1601
ATL7002
C1601
C1602
470p
0.01
C1603
AL
47/16
CN1601
OPTIN
DG
MICSW
D+5V
52044-0445
S CN3004
JA1606
SETUP MIC
RKN1004
L1602
QTL1013
L1603
QTL1013
R1608
1k
C1606
470p
R1607
100k
C1607
R1609
470k
C1611
1000p
C1612
0.01
C1613
STBY
C1614
0.01
CN1602
MIC
AG
SHLD
S3B-PH-K-S
J1601
ADX7417
M MIC AMP ASSY (AWX8004)
CN4751
MICIN
GNDA
SHLD
S3B-PH-K-S
C4752
10/50
R4752
100
R4751
6.8k
IC4752 (1/2)
UPC4570G2
MIC AMP
R4753
100k
C4753
100p
R4754
33k
C4754
33p
R4755
470
R4756
470
MUF
C4755
10/50
R4757
100k
D4751
UDZS5.1B
D4752
UDZS5.1B
CN4752
MICOUT
GNDA
V-15
V+15
52147-0410
S J3008
+5V
IC4751
NJM78L05A
OUT IN
C4765
0.047
C4751
10/50
C4758
0.047
C4763
0.047
C4756
10/50
C4762
0.047
R4761
0
C4761
IC4752 (2/2)
UPC4570G2
C4757
10/50
C4764
0.047
VEF1040
VSX-D2011 ONLY
W CN2409
CN1654
DRET
DRET
DRET
D5V
D5V
V1394
V1394
ARET
ARET
A5V
A5V
-15V
-15V
G
G
+15V
+15V
AKP7072
V+D5V
V+I5V
V+A5V
V+15V
V-15V
W CN2408
CN1653
G
OPTIN
G
DSDM
MUTE
DMT.
D2MD
D2CS
D2RT
D2RQ
DSDO
DSCK
DSDI
D1MD
D1CS
D1RQ
NC
R1672
0
R1671
0
AKP7072
W CN2407
CN1652
D1RT
ADRT
ERR
DATA
CLK
DRDO
DRCS
DRRT
NC
G
G
IEIT
IEDO
IEDI
IERT
IECK
IECS
R1674
0
AKP7072

⬭ : The power supply is shown with the marked box.

L **M** **N**

N DSP CONNECTION ASSY (AWX8024)

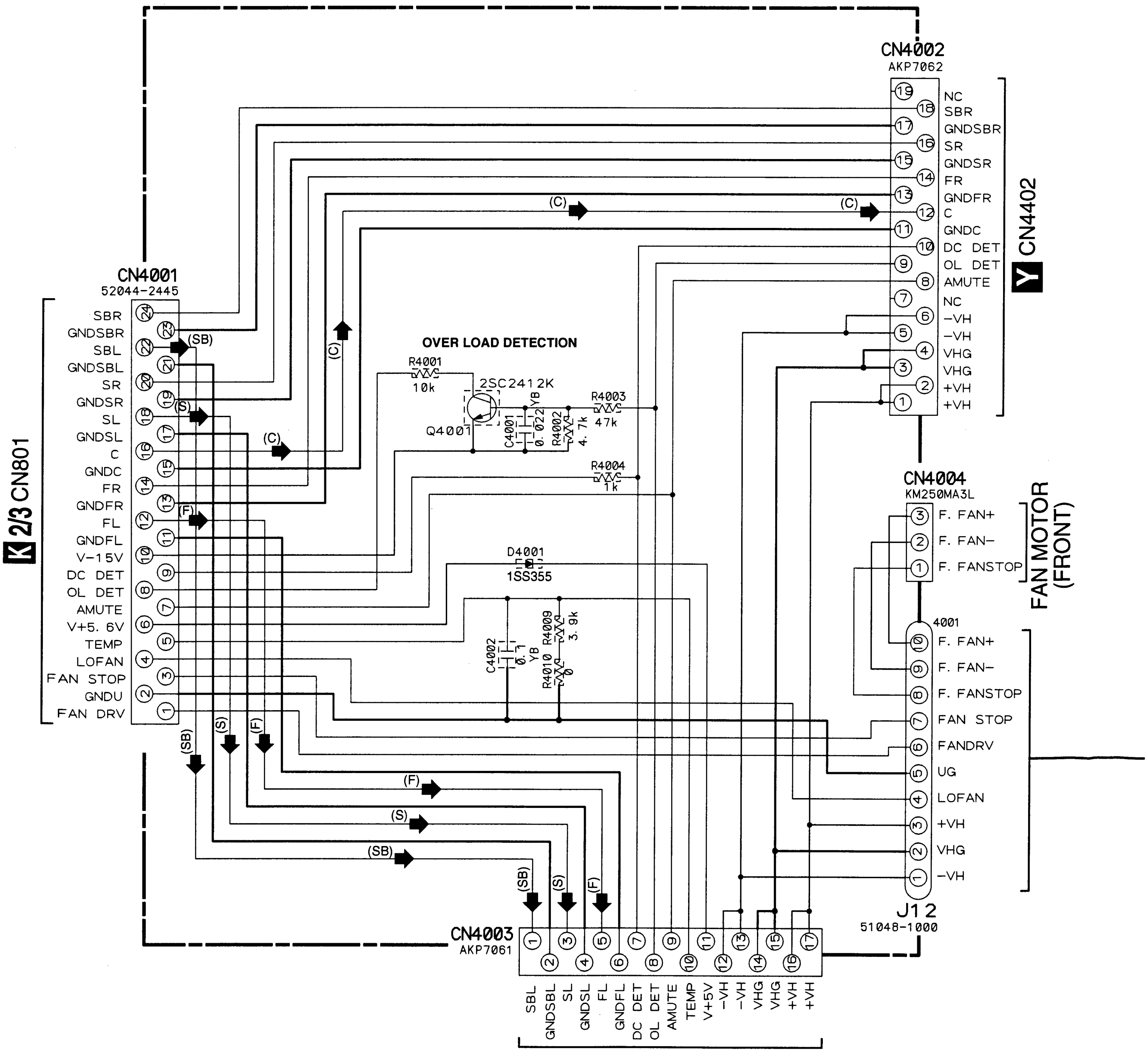

V+15V
V+D5V
V+I5V
V+A5V
CN1651
D2MD
R1668
100
V+3R3V
V+3R3V
D1RQ
L1651
QTL1013
D2RQ
R1670
100
DSDO
R1673
0
R1669
100
DMT
R1667
100
MUTE
VCC
2G
1G
GND
IC1651
TC74LVX244FT
C1651
0.01
R1655
0
DSDM
MUTE
DMT
D2MD
R1663
100
R1664
100
D2RQ
DSDO
LEVEL SHIFT
5V —> 3.3V
R1665
100
R1666
100
D1RQ
ERR
ADRT
DRCS
CLK
ADRT
ERR
DRRT
R1675
0
DRDO
CLK
DRDO
DRCS
DRRT
IEDO
CNT
V−15V
AKP7177
26 D2MD (ADMD)
27 D1MD (XTLO)
28 D2RT
29 D1RT
30 D1RQ
31 D1 CS
32 DSCK (DVD−A)
33 D2RQ (LSSN)
34 D2CS
35 DSDO
36 DSDI
37 DMT
38 MUTE
39 G
40 3. 3V
41 A. RET
42 A. RET
43 A. 5V
44 A. 5V
45 DSDM
46 D. RET
47 D. RET
48 D. 5V
49 D. 5V
50 V. 1394
25 V. 1394
24 +15V
23 +15V
22 G
21 G
20 −15V
19 −15V
18 OPTIN
17 G
16 DOUT
15 G
14 ERR
13 ADRT
12 DRCS
11 CLK
10 DATA
9 DRDO
8 DRRT
7 1394IT
6 1394DO
5 1394DI
4 1394RT
3 1394CK
2 1394CS
1 G
R 1/2 CN102

N

3.15 POWER AMP IN, FAN DRIVE and FAN CONNECTION ASSYS

(F) ➡ : AUDIO SIGNAL ROUTE (FRONT Lch)
(S) ➡ : AUDIO SIGNAL ROUTE (SURROUND Lch)
(SB) ➡ : AUDIO SIGNAL ROUTE (SURROUND BACK Lch)
(C) ➡ : AUDIO SIGNAL ROUTE (CENTER ch)

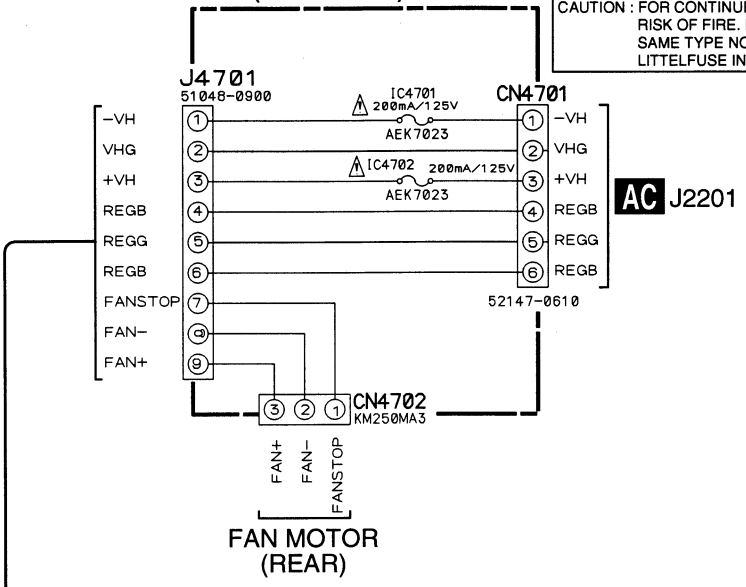
O POWER AMP IN ASSY (AWX7982)

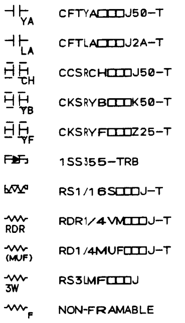

CN4002
AKP7062
19 NC
18 SBR
17 GNDSBR
16 SR
15 GNDSR
14 FR
13 GNDFR
12 C
11 GNDC
10 DC DET
9 OL DET
8 AMUTE
7 NC
6 −VH
5 −VH
4 VHG
3 VHG
2 +VH
1 +VH
Y CN4402
CN4001
52044-2445
24 SBR
23 GNDSBR
22 SBL
21 GNDSBL
20 SR
19 GNDSR
18 SL
17 GNDSL
16 C
15 GNDC
14 FR
13 GNDFR
12 FL
11 GNDFL
10 V−15V
9 DC DET
8 OL DET
7 AMUTE
6 V+5.6V
5 TEMP
4 LOFAN
3 FAN STOP
2 GNDU
1 FAN DRV
K 2/3 CN801
(SB)
(S)
(C)
(F)
OVER LOAD DETECTION
R4001
10k
2SC2412K
Q4001
C4001
0.022
YB
R4002
4.7k
R4003
47k
R4004
1k
D4001
1SS355
C4002
0.1
YB
R4009
3.9k
R4010
0
CN4004
KM250MA3L
3 F. FAN+
2 F. FAN−
1 F. FANSTOP
FAN MOTOR (FRONT)
4001
10 F. FAN+
9 F. FAN−
8 F. FANSTOP
7 FAN STOP
6 FANDRV
5 UG
4 LOFAN
3 +VH
2 VHG
1 −VH
J12
51048-1000
CN4003
AKP7061
1 SBL
2 GNDSBL
3 SL
4 GNDSL
5 FL
6 GNDFL
7 DC DET
8 OL DET
9 AMUTE
10 TEMP
11 V+5V
12 −VH
13 −VH
14 VHG
15 VHG
16 +VH
17 +VH
X CN4401

O

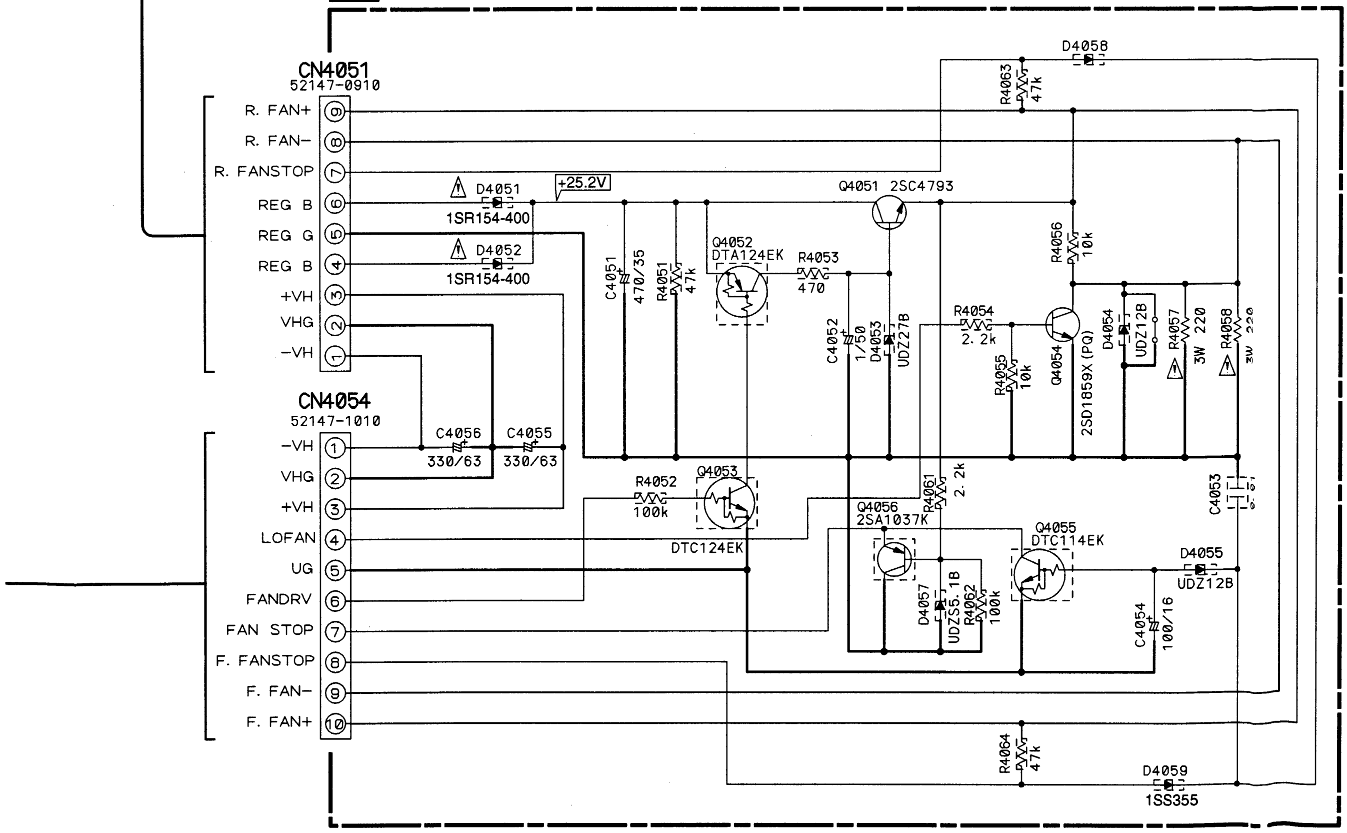
Q FAN CONNECTION ASSY (AWX8005)

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491.200 MFD, BY LITTELFUSE INK. FOR IC4701 AND IC4702.

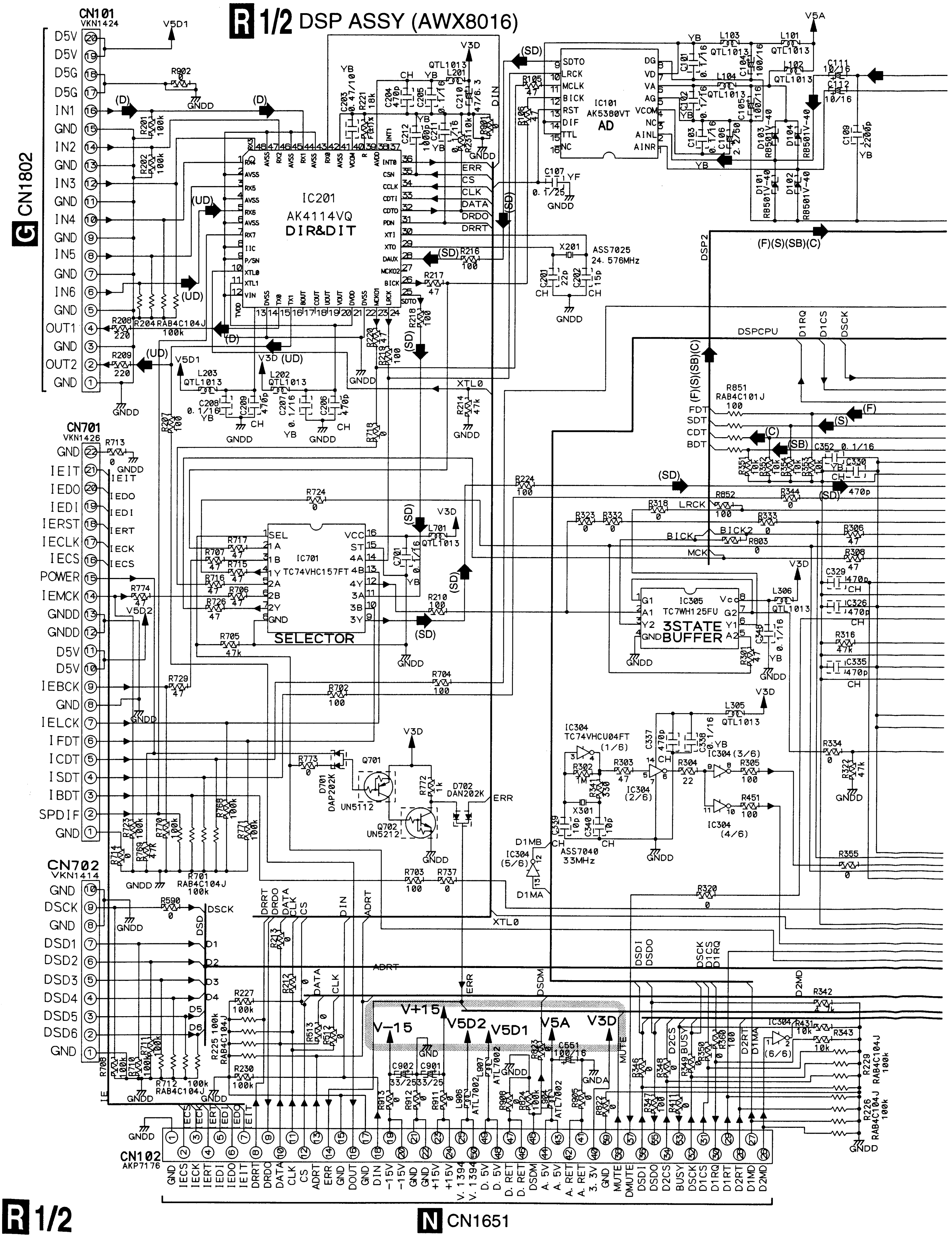

J4701
51048-0900
-VH
VHG
+VH
REGB
REGG
REGB
FANSTOP
FAN-
FAN+
IC4701
200mA/125V
AEK7023
IC4702
200mA/125V
AEK7023
CN4701
-VH
VHG
+VH
REGB
REGG
REGB
52147-0610
AC J2201
CN4702
KM250MA3
FAN+
FAN-
FANSTOP
FAN MOTOR
(REAR)


YA CFTYA□□□J50-T
LA CFTLA□□□J2A-T
CH CCSRCH□□□J50-T
YB CKSRYB□□□K50-T
YF CKSRYF□□□Z25-T
1SS355-TRB
RS1/16S□□□J-T
RDR RDR1/4VM□□□J-T
(MUF) RD1/4MUF□□□J-T
3W RS3LMF□□□J
F NON-FRAMABLE

P FAN DRIVE ASSY (AWX8135)

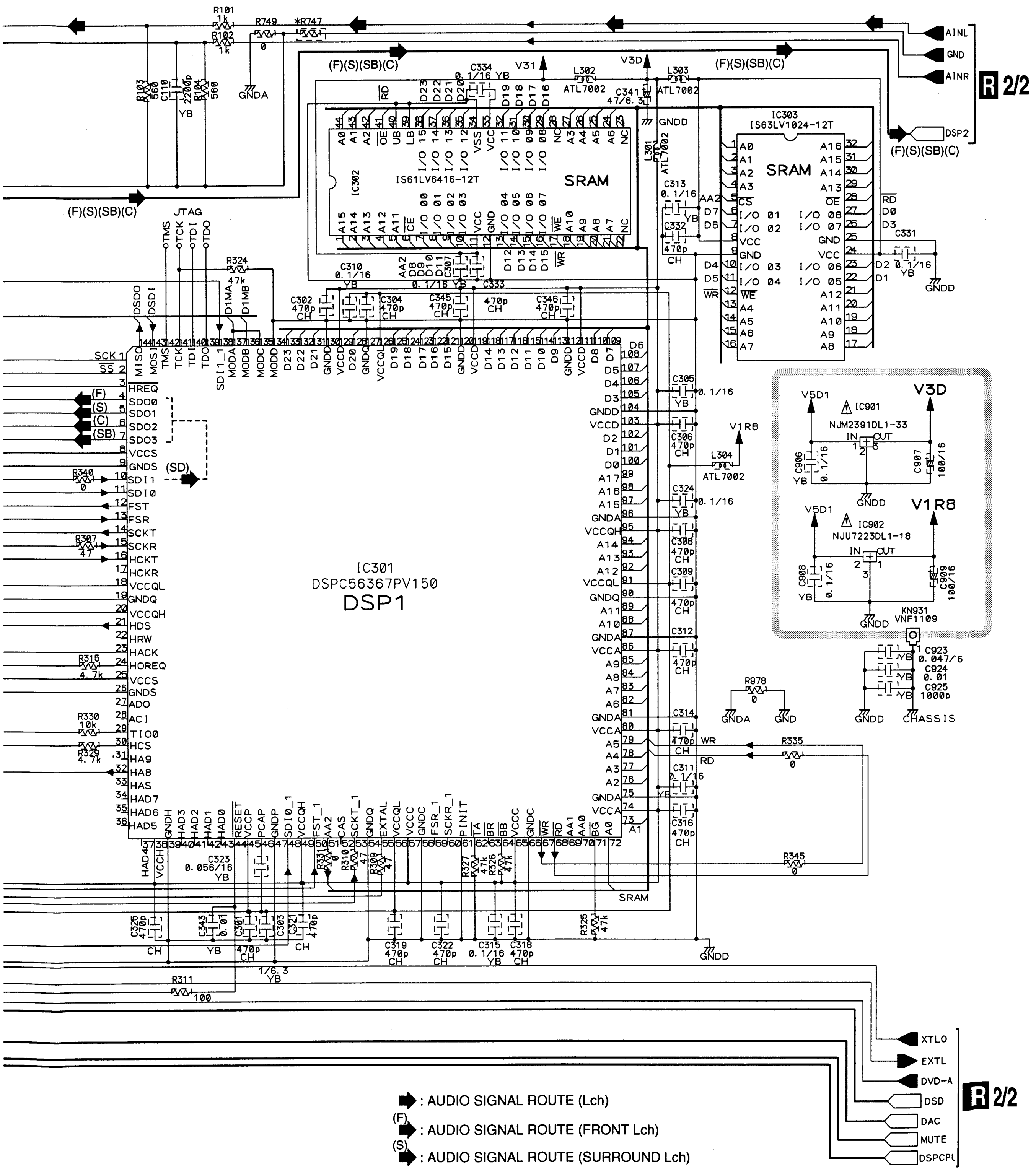

CN4051
52147-0910
R. FAN+
R. FAN-
R. FANSTOP
REG B
REG G
REG B
+VH
VHG
-VH
CN4054
52147-1010
-VH
VHG
+VH
LOFAN
UG
FANDRV
FAN STOP
F. FANSTOP
F. FAN-
F. FAN+
D4051
1SR154-400
D4052
1SR154-400
+25.2V
C4051
470/35
R4051
47k
Q4052
DTA124EK
R4053
470
Q4051 2SC4793
C4052
1/50
D4053
UDZ27B
R4054
2.2k
R4055
10k
Q4054
2SD1859X (PQ)
D4054
UDZ12B
R4057
3W 220
R4058
3W 220
R4056
10k
R4063
47k
D4058
C4056
330/63
C4055
330/63
R4052
100k
Q4053
DTC124EK
R4061
2.2k
Q4056
2SA1037K
D4057
UDZ5.1B
R4062
100k
Q4055
DTC114EK
C4053
0.01
D4055
UDZ12B
C4054
100/16
R4064
47k
D4059
1SS355

3.16 DSP ASSY (1/2)



R 1/2 DSP ASSY (AWX8016)
CN101 VKN1424
G CN1802
D5V 20
D5V 19
D5G 18
D5G 17
IN1 16
GND 15
IN2 14
GND 13
IN3 12
GND 11
IN4 10
GND 9
IN5 8
GND 7
IN6 6
GND 5
OUT1 4
GND 3
OUT2 2
GND 1
IC201 AK4114VQ DIR&DIT
IC101 AK5380VT AD
X201 ASS7025 24.576MHz
CN701 VKN1426
GND, IEIT, IEDO, IEDI, IERST, IECLK, IECS, POWER, IEMCK, GNDD, GNDD, D5V, D5V, IEBCK, GND, IELCK, IFDT, ICDT, ISDT, IBDT, SPDIF, GND
IC701 TC74VHC157FT SELECTOR
IC305 TC7WH125FU 3STATE BUFFER
IC304 TC74VHCU04FT
X301 ASS7040 33MHz
Q701 UN5112
Q702 UN5212
D701 DAP202K
D702 DAN202K
CN702 VKN1414
GND, DSCK, GND, DSD1, DSD2, DSD3, DSD4, DSD5, DSD6, GND
V-15 V+15 V5D2 V5D1 V5A V3D
CN102 AKP7176
GND, IECS, IECK, IERT, IEDI, IEDO, IEIT, DRRT, DRDO, DATA, CLK, CS, ADRT, ERR, GND, DOUT, GND, DIN, -15V, -15V, GND, GND, +15V, +15V, V.1394, V.1394, D.5V, D.5V, D.RET, D.RET, DSDM, A.5V, A.5V, A.RET, A.RET, 3.3V, GND, MUTE, DMUTE, DSDI, DSDO, D2CS, BUSY, DSCK, D1CS, D1RQ, D1RT, D2RT, D1MD, D2MD
N CN1651
R 1/2

: The power supply is shown with the marked box.


R101 1k
R102 1k
R749 0
*R747
R103 560
C110 2200p
R104 560
YB
GNDA
AINL
GND
AINR
R 2/2
DSP2
(F)(S)(SB)(C)
C334 0.1/16 YB
V31
L302 ATL7002
V3D
C341 47/6.3
L303 ATL7002
GNDD
IC302
IS61LV6416-12T
SRAM
IC303
IS63LV1024-12T
SRAM
L301 ATL7002
C313 0.1/16 YB
C332 470p CH
C331 0.1/16 YB
JTAG
TMS
TCK
TDI
TDO
R324 47k
C310 0.1/16 YB
C307 0.1/16 YB
C333
C302 470p CH
C304 470p CH
C345 470p CH
470p CH
C346 470p CH
DSDO
DSDI
D1MA
D1MB
SCK
SS
HREQ
SDO0
SDO1
SDO2
SDO3
(F)
(S)
(C)
(SB)
(SD)
R340 0
R307 47
R315 4.7k
R330 10k
R329 4.7k
IC301
DSPC56367PV150
DSP1
C305 0.1/16 YB
C306 470p CH
V1R8
L304 ATL7002
C324 0.1/16 YB
C308 470p CH
C309 470p CH
C312 470p CH
C314 470p CH
C311 0.1/16
C316 470p CH
WR
RD
R335 0
R345 0
R978 0
GNDA
GND
V5D1
IC901
NJM2391DL1-33
IN OUT
C906 0.1/16 YB
C907 100/16
V5D1
IC902
NJU7223DL1-18
C908 0.1/16 YB
C909 100/16
KN931 VNF1109
C923 0.047/16 YB
C924 0.01 YB
C925 1000p YB
CHASSIS
C323 0.056/16 YB
R331
R310 47
R309 47
R327 47k
R326 47k
SRAM
C325 470p CH
C343 0.01 YB
C301 470p CH
C303
C321 470p CH
C319 470p CH
C322 470p CH
C315 0.1/16 YB
C318 470p CH
R325 47k
GNDD
1/6.3 YB
R311 100
XTLO
EXTL
DVD-A
DSD
DAC
MUTE
DSPCPU
R 2/2

: AUDIO SIGNAL ROUTE (Lch)

(F) : AUDIO SIGNAL ROUTE (FRONT Lch)

(S) : AUDIO SIGNAL ROUTE (SURROUND Lch)

(SB) : AUDIO SIGNAL ROUTE (SURROUND BACK Lch)

(C) : AUDIO SIGNAL ROUTE (CENTER ch)

(SD) : SURROUND DATA SIGNAL ROUTE

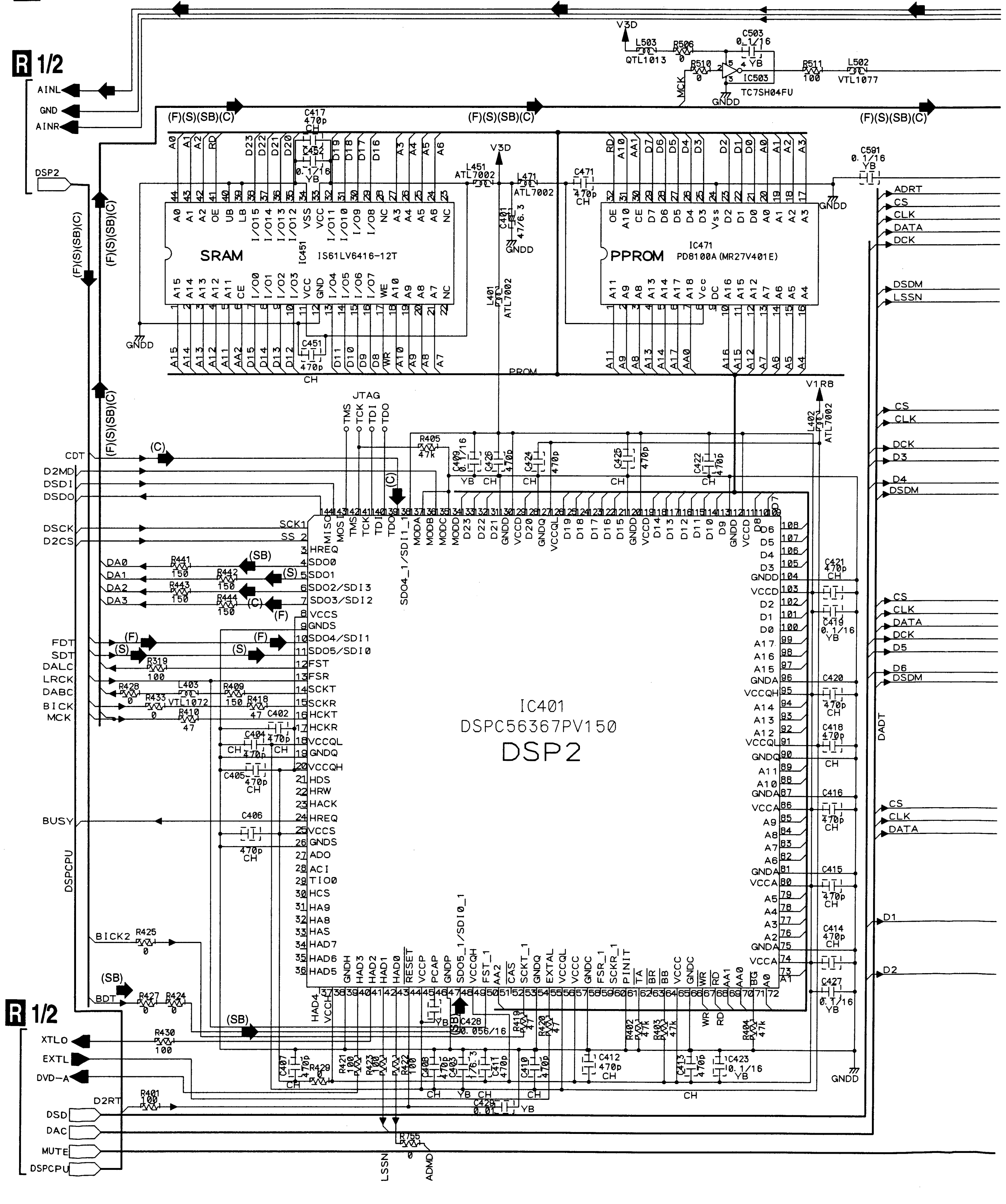
(D) : AUDIO SIGNAL ROUTE (DIGITAL)

(UD) : AUDIO SIGNAL ROUTE (USB DIGITAL)

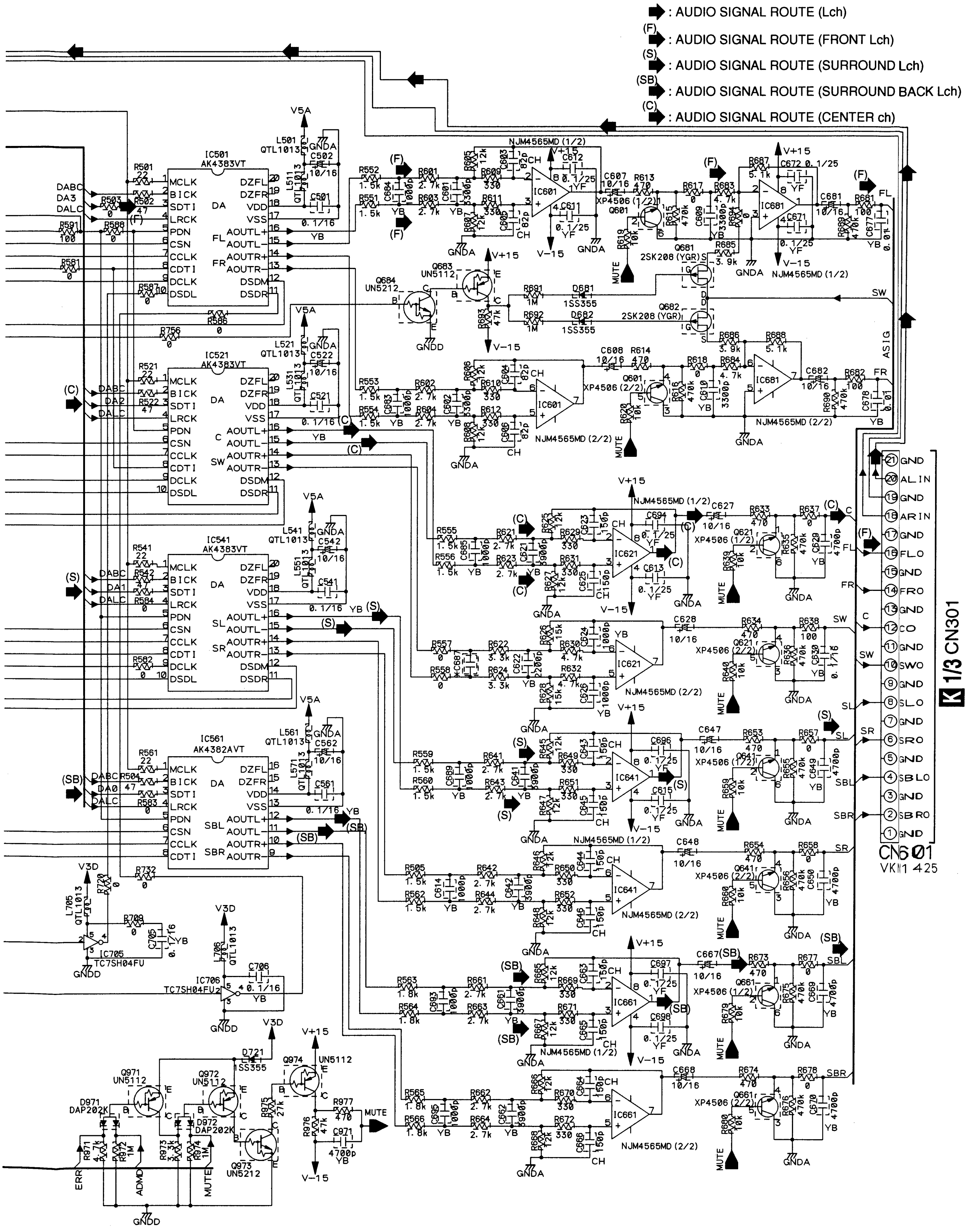
R 1/2

3.17 DSP ASSY (2/2)

R 2/2 DSP ASSY (AWX8016)


R 1/2
AINL
GND
AINR
DSP2
(F)(S)(SB)(C)
V3D
L503 QTL1013
R506 0
C503 0.1/16 YB
R510 0
IC503 TC7SH04FU
R511 100
L502 VTL1077
MCK
GNDD
C417 470p CH
C452 0.1/16 YB
SRAM
IC451 IS61LV6416-12T
C451 470p CH
L451 ATL7002
L471 ATL7002
C401 47/6.3
L401 ATL7002
C471 470p CH
PPROM
IC471 PD8100A (MR27V401E)
PROM
C591 0.1/16 YB
ADRT
CS
CLK
DATA
DCK
DSDM
LSSN
V1R8
L402 ATL7002
JTAG
TMS
TCK
TDI
TDO
R405 47k
C409 0.1/16 YB
C426 470p CH
C424 470p CH
C425 470p CH
C422 470p CH
CDT
D2MD
DSDI
DSDO
DSCK
D2CS
DA0
DA1
DA2
DA3
R441 150
R442 150
R443 150
R444 150
FDT
SDT
DALC
LRCK
DABC
BICK
MCK
R319 100
R428 0
L403 VTL1072
R433 0
R409 150
R418 47
R410 47
C402 470p CH
C404 470p CH
C405 470p CH
C406 470p CH
BUSY
DSPCPU
IC401
DSPC56367PV150
DSP2
C421 470p CH
C419 0.1/16 YB
C420 470p CH
C418 470p CH
C416 470p CH
C415 470p CH
C414 470p CH
C427 0.1/16 YB
DADT
D1
D2
D3
D4
D5
D6
BICK2
R425 0
BDT
R427 0
R424 0
XTLO
EXTL
DVD-A
R430 100
C407 470p CH
R429 0
R421 100
R423 100
R422 100
C408 470p CH
C403 47/6.3
C428 0.056/16
C411 470p
C410 470p CH
R419 47
R420 47
C412 470p CH
C413 470p
C423 0.1/16 YB
R402 47k
R403 47k
R404 47k
C429 0.01 YB
D2RT
R401 100
DSD
DAC
MUTE
DSPCPU
R755 0
LSSN
ADMD
GNDD

R 2/2


: AUDIO SIGNAL ROUTE (Lch)
(F) : AUDIO SIGNAL ROUTE (FRONT Lch)
(S) : AUDIO SIGNAL ROUTE (SURROUND Lch)
(SB) : AUDIO SIGNAL ROUTE (SURROUND BACK Lch)
(C) : AUDIO SIGNAL ROUTE (CENTER ch)
IC501 AK4383VT
IC521 AK4383VT
IC541 AK4383VT
IC561 AK4382AVT
MCLK
BICK
SDTI
LRCK
PDN
CSN
CCLK
CDTI
DCLK
DSDL
DZFL
DZFR
VDD
VSS
AOUTL+
AOUTL-
AOUTR+
AOUTR-
DSDM
DSDR
DA
FL
FR
C
SW
SL
SR
SBL
SBR
DABC
DA3
DALC
DA2
DA1
DA0
V5A
V3D
V+15
V-15
GNDA
GNDD
L501 QTL1013
L521 QTL1013
L541 QTL1013
L561 QTL1013
L705 QTL1013
L706 QTL1013
IC601 NJM4565MD (1/2)
IC601 NJM4565MD (2/2)
IC621 NJM4565MD (1/2)
IC621 NJM4565MD (2/2)
IC641 NJM4565MD (1/2)
IC641 NJM4565MD (2/2)
IC661 NJM4565MD (1/2)
IC661 NJM4565MD (2/2)
IC681 NJM4565MD (1/2)
IC681 NJM4565MD (2/2)
Q601 XP4506 (1/2)
Q601 XP4506 (2/2)
Q621 XP4506 (1/2)
Q621 XP4506 (2/2)
Q641 XP4506 (1/2)
Q641 XP4506 (2/2)
Q661 XP4506 (1/2)
Q661 XP4506 (2/2)
Q681 2SK208 (YGR)
Q682 2SK208 (YGR)
Q683 UN5112
Q684 UN5212
D681 1SS355
D682 1SS355
IC705 TC7SH04FU
IC706 TC7SH04FU
Q971 UN5112
Q972 UN5112
Q973 UN5212
Q974 UN5112
D971 DAP202K
D972 DAP202K
D721 1SS355
ERR
ADMD
MUTE
ASIG
CN601 VKN1425
1/3 CN301
21 GND
20 AL IN
19 GND
18 AR IN
17 GND
16 FLO
15 GND
14 FRO
13 GND
12 CO
11 GND
10 SWO
9 GND
8 SLO
7 GND
6 SRO
5 GND
4 SBLO
3 GND
2 SBRO
1 GND
K
R 2/2

3.18 DISPLAY ASSY

S DISPLAY ASSY
(VSX-D2011 : AWX8147)
(VSX-D1011 : AWX8011)

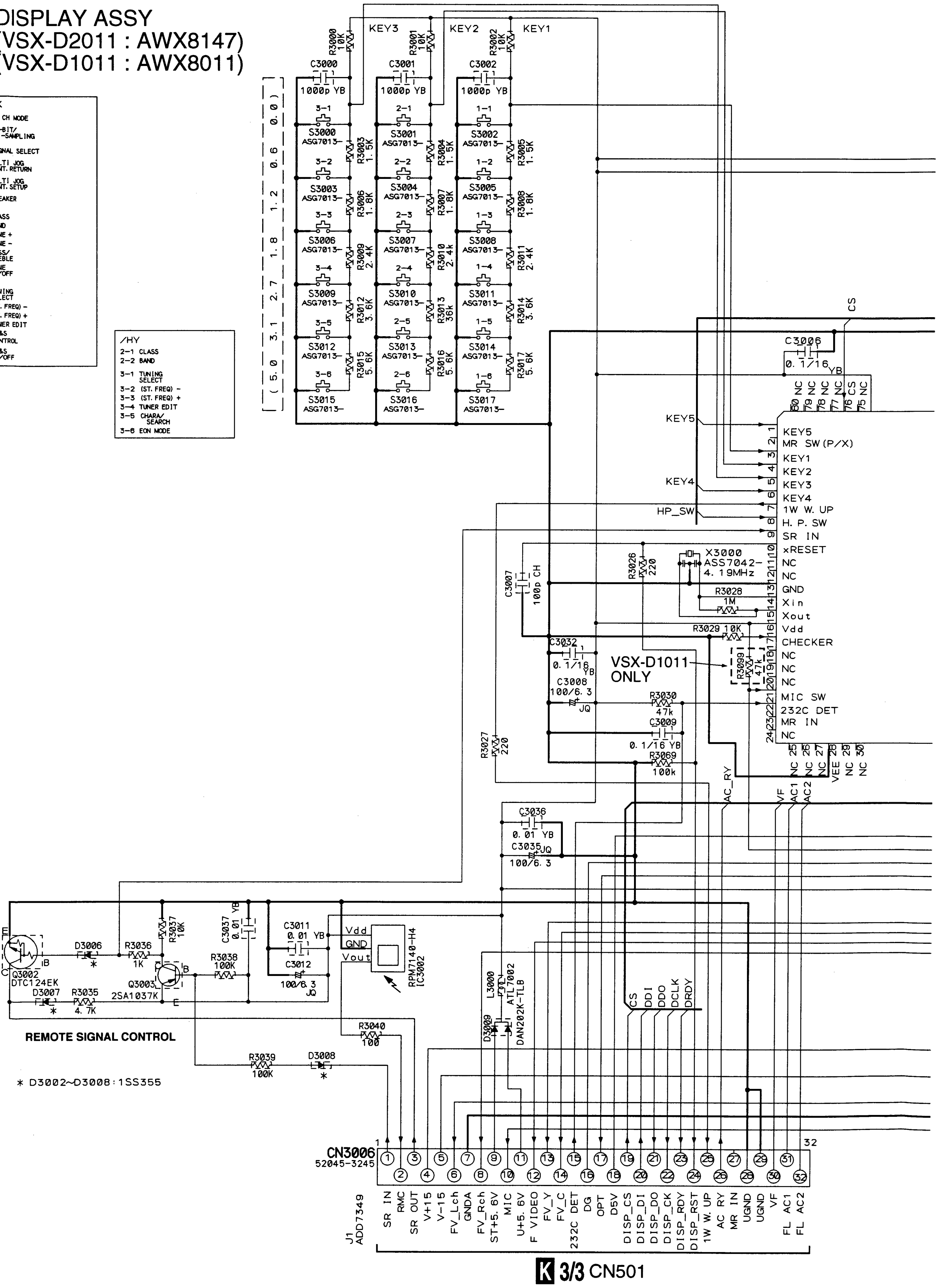
45TX
1-1 SB CH MODE
1-2 HI-BIT/ HI-SAMPLING
1-3 SIGNAL SELECT
1-4 MULTI JOG CONT. RETURN
1-5 MULTI JOG CONT. SETUP
1-6 SPEAKER

2-1 CLASS
2-2 BAND
2-3 TONE +
2-4 TONE -
2-5 BASS/ TREBLE
2-6 TONE ON/OFF

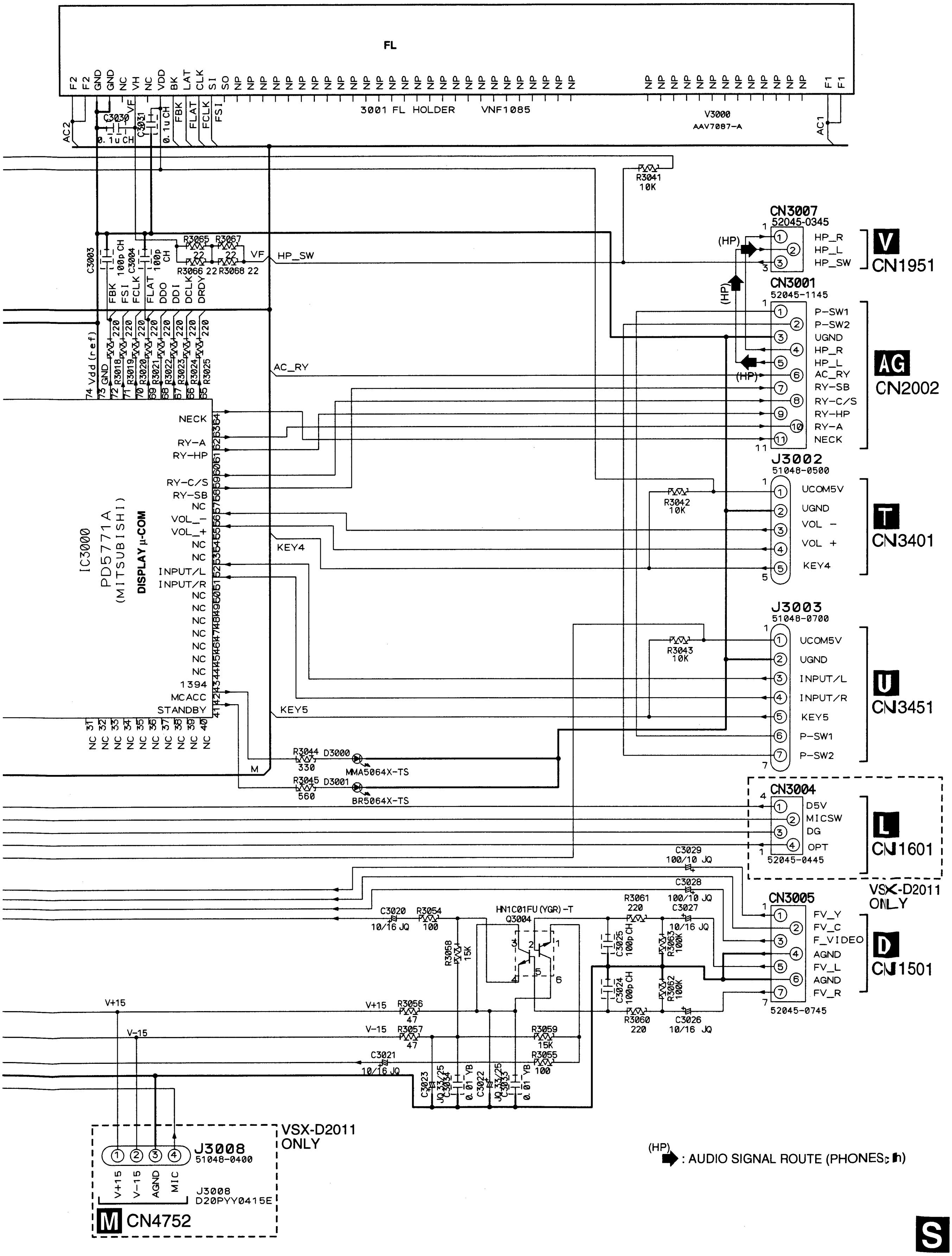
3-1 TUNING SELECT
3-2 (ST. FREQ) -
3-3 (ST. FREQ) +
3-4 TUNER EDIT
3-5 MR&S CONTROL
3-6 MR&S ON/OFF

/HY
2-1 CLASS
2-2 BAND

3-1 TUNING SELECT
3-2 (ST. FREQ) -
3-3 (ST. FREQ) +
3-4 TUNER EDIT
3-5 CHARA/ SEARCH
3-6 EON MODE


KEY3
KEY2
KEY1
R3000 10K
R3001 10K
R3002 10K
C3000 1000p YB
C3001 1000p YB
C3002 1000p YB
(0.0 0.6 1.2 1.8 2.7 3.1 5.0)
S3000 ASG7013-
S3001 ASG7013-
S3002 ASG7013-
S3003 ASG7013-
S3004 ASG7013-
S3005 ASG7013-
S3006 ASG7013-
S3007 ASG7013-
S3008 ASG7013-
S3009 ASG7013-
S3010 ASG7013-
S3011 ASG7013-
S3012 ASG7013-
S3013 ASG7013-
S3014 ASG7013-
S3015 ASG7013-
S3016 ASG7013-
S3017 ASG7013-
R3003 1.5K
R3004 1.5K
R3005 1.5K
R3006 1.8K
R3007 1.8K
R3008 1.8K
R3009 2.4K
R3010 2.4K
R3011 2.4K
R3012 3.6K
R3013 36K
R3014 3.6K
R3015 5.6K
R3016 5.6K
R3017 5.6K
CS
C3006 0.1/16 YB
60 NC 79 NC 78 NC 77 NC 76 CS 75 NC
KEY5
KEY4
HP_SW
1 KEY5
2 MR SW (P/X)
3 KEY1
4 KEY2
5 KEY3
6 KEY4
7 1W W. UP
8 H. P. SW
9 SR IN
10 xRESET
11 NC
12 NC
13 GND
14 Xin
15 Xout
16 Vdd
17 CHECKER
18 NC
19 NC
20 NC
21 MIC SW
22 232C DET
23 MR IN
24 NC
25 NC 26 NC 27 NC 28 VEE 29 NC 30 NC
X3000 ASS7042- 4.19MHz
R3026 220
R3028 1M
R3029 10K
C3007 100p CH
C3032 0.1/16 YB
C3008 100/6.3 JQ
VSX-D1011 ONLY
R3099 47k
R3030 47k
C3009 0.1/16 YB
R3069 100k
R3027 220
AC_RY
VF
AC1
AC2
C3036 0.01 YB
C3035 JQ 100/6.3
Q3002 DTC124EK
D3006
R3036 1K
R3037 10K
D3007
R3035 4.7K
Q3003 2SA1037K
C3037 0.01 YB
R3038 100K
C3011 0.01 YB
C3012 100/6.3 JQ
Vdd
GND
Vout
RPM7140-H4 IC3002
L3000
ATL7002
D3009 DAN202K-TLB
CS DDI DDO DCLK DRDY
R3040 100
R3039 100K
D3008
REMOTE SIGNAL CONTROL
* D3002~D3008 : 1SS355
CN3006 52045-3245
1 32
J1 ADD7349
SR IN
RMC
SR OUT
V+15
V-15
FV_Lch
GNDA
FV_Rch
ST+5.6V
MIC
U+5.6V
F VIDEO
FV_Y
FV_C
232C DET
DG
OPT
D5V
DISP_CS
DISP_DI
DISP_DO
DISP_CK
DISP_RDY
DISP_RST
1W W. UP
AC RY
MR IN
UGND
UGND
VF
FL AC1
FL AC2
K 3/3 CN501

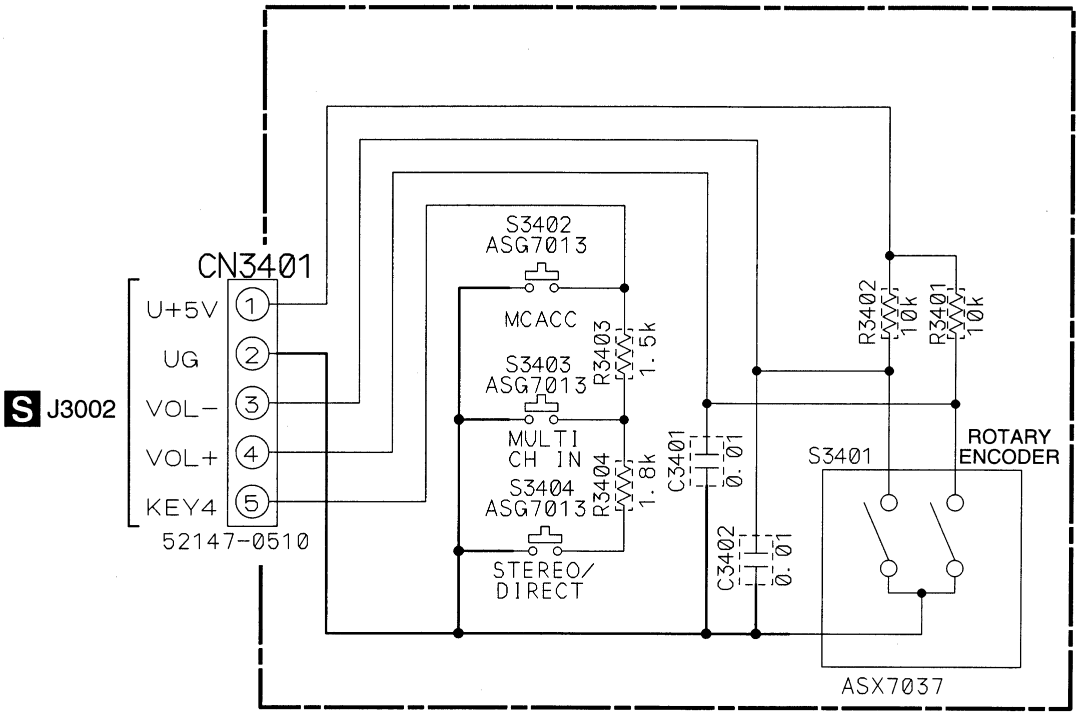
S


FL
F2 F2 GND GND NC VH NC VDD BK LAT CLK SI SO NP ... NP F1 F1
3001 FL HOLDER VNF1085
V3000
AAV7087-A
AC2
AC1
C3030 0.1u CH
C3031 0.1u CH
VF
FBK FLAT FCLK FSI
R3041 10K
CN3007
52045-0345
HP_R
HP_L
HP_SW
V
CN1951
(HP)
C3003
100p CH
C3004
100p CH
R3065 R3067
22 22
R3066 22 R3068 22
HP_SW
FBK FSI FCLK FLAT DDO DDI DCLK DRDY
220 220 220 220 220 220 220 220
R3018 R3019 R3020 R3021 R3022 R3023 R3024 R3025
74 Vdd(ref)
73 GND
AC_RY
CN3001
52045-1145
P-SW1
P-SW2
UGND
HP_R
HP_L
AC_RY
RY-SB
RY-C/S
RY-HP
RY-A
NECK
AG
CN2002
NECK
RY-A
RY-HP
RY-C/S
RY-SB
NC
VOL_-
VOL_+
NC
NC
INPUT/L
INPUT/R
NC
NC
NC
NC
NC
NC
NC
1394
MCACC
STANDBY
IC3000
PD5771A
(MITSUBISHI)
DISPLAY µ-COM
NC NC NC NC NC NC NC NC NC NC
31 32 33 34 35 36 37 38 39 40
KEY4
KEY5
J3002
51048-0500
UCOM5V
UGND
VOL -
VOL +
KEY4
R3042 10K
T
CN3401
J3003
51048-0700
UCOM5V
UGND
INPUT/L
INPUT/R
KEY5
P-SW1
P-SW2
R3043 10K
U
CN3451
R3044 330 D3000
MMA5064X-TS
R3045 560 D3001
BR5064X-TS
M
CN3004
52045-0445
D5V
MICSW
DG
OPT
L
CN1601
C3029 100/10 JQ
C3028 100/10 JQ
VSX-D2011 ONLY
CN3005
52045-0745
FV_Y
FV_C
F_VIDEO
AGND
FV_L
AGND
FV_R
D
CN1501
HN1C01FU(YGR)-T
Q3004
C3020 10/16 JQ
R3054 100
R3058 15K
R3061 220
C3027 10/16 JQ
C3025 100p CH
R3063 100K
C3024 100p CH
R3062 100K
R3060 220
C3026 10/16 JQ
V+15
V-15
V+15 R3056 47
V-15 R3057 47
C3021 10/16 JQ
R3059 15K
R3055 100
C3023 JQ 33/25
C3034 0.01 YB
C3022 JQ 33/25
C3033 0.01 YB
J3008
51048-0400
V+15 V-15 AGND MIC
J3008
D20PYY0415E
VSX-D2011 ONLY
M CN4752

(HP) : AUDIO SIGNAL ROUTE (PHONES: h)

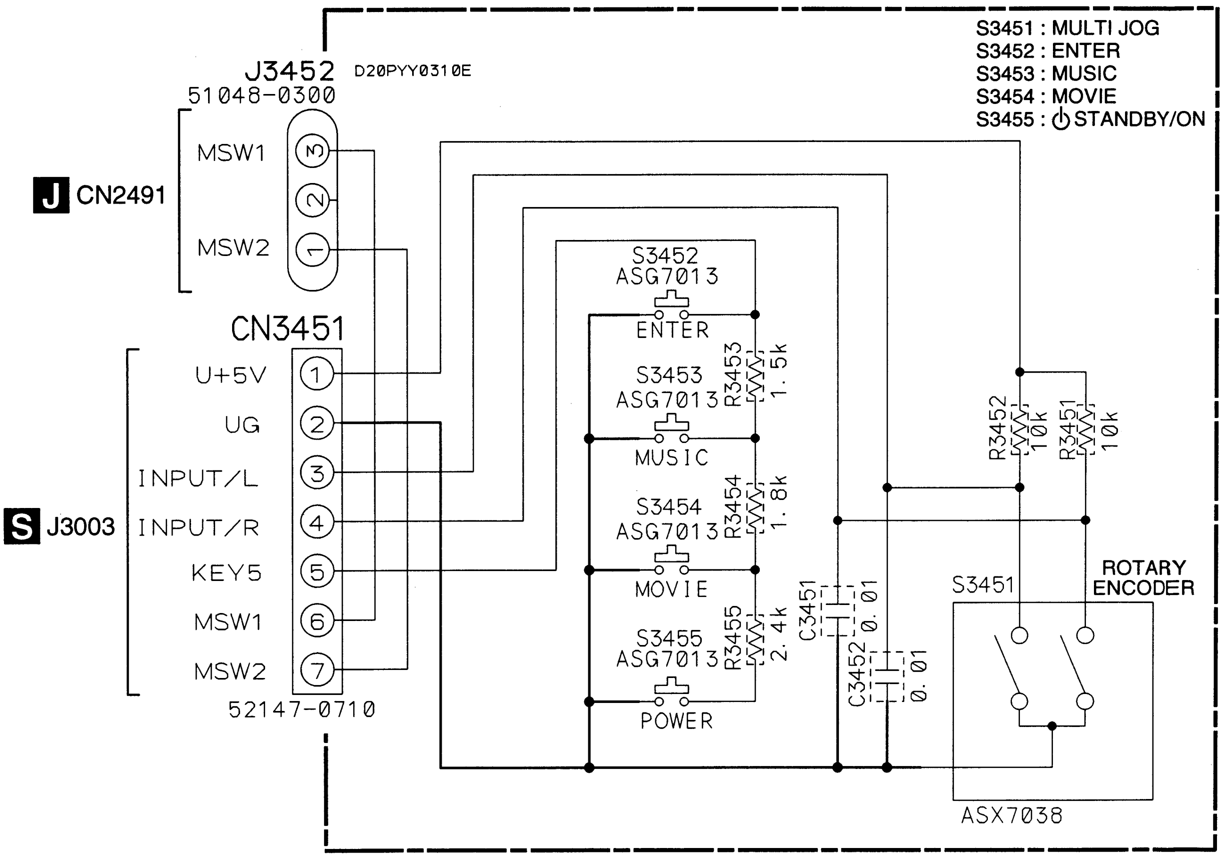
3.19 VOLUME, MULTI JOG and HEADPHONE ASSYS

T VOLUME ASSY (AWX7971)


CN3401
U+5V ①
UG ②
VOL− ③
VOL+ ④
KEY4 ⑤
52147-0510
S J3002
S3402
ASG7013
MCACC
R3403
1.5k
S3403
ASG7013
MULTI
CH IN
R3404
1.8k
S3404
ASG7013
STEREO/
DIRECT
C3401
0.01
C3402
0.01
R3402
10k
R3401
10k
S3401
ROTARY
ENCODER
ASX7037

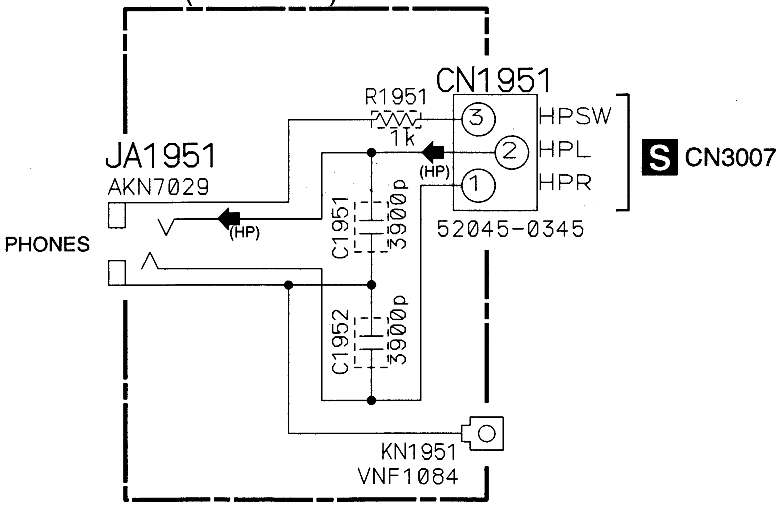
S3401 : MASTER VOLUME
S3402 : ACOUSTIC EQ
S3403 : MULTI CH IN
S3404 : STEREO/DIRECT

U MULTI JOG ASSY (AWX8015)


S3451 : MULTI JOG
S3452 : ENTER
S3453 : MUSIC
S3454 : MOVIE
S3455 : ⏻ STANDBY/ON
J3452
D20PYY0310E
51048-0300
MSW1
MSW2
J CN2491
CN3451
U+5V
UG
INPUT/L
INPUT/R
KEY5
MSW1
MSW2
S J3003
52147-0710
S3452
ASG7013
ENTER
S3453
ASG7013
MUSIC
S3454
ASG7013
MOVIE
S3455
ASG7013
POWER
R3453 1.5k
R3454 1.8k
R3455 2.4k
C3451 0.01
C3452 0.01
R3452 10k
R3451 10k
S3451
ROTARY ENCODER
ASX7038

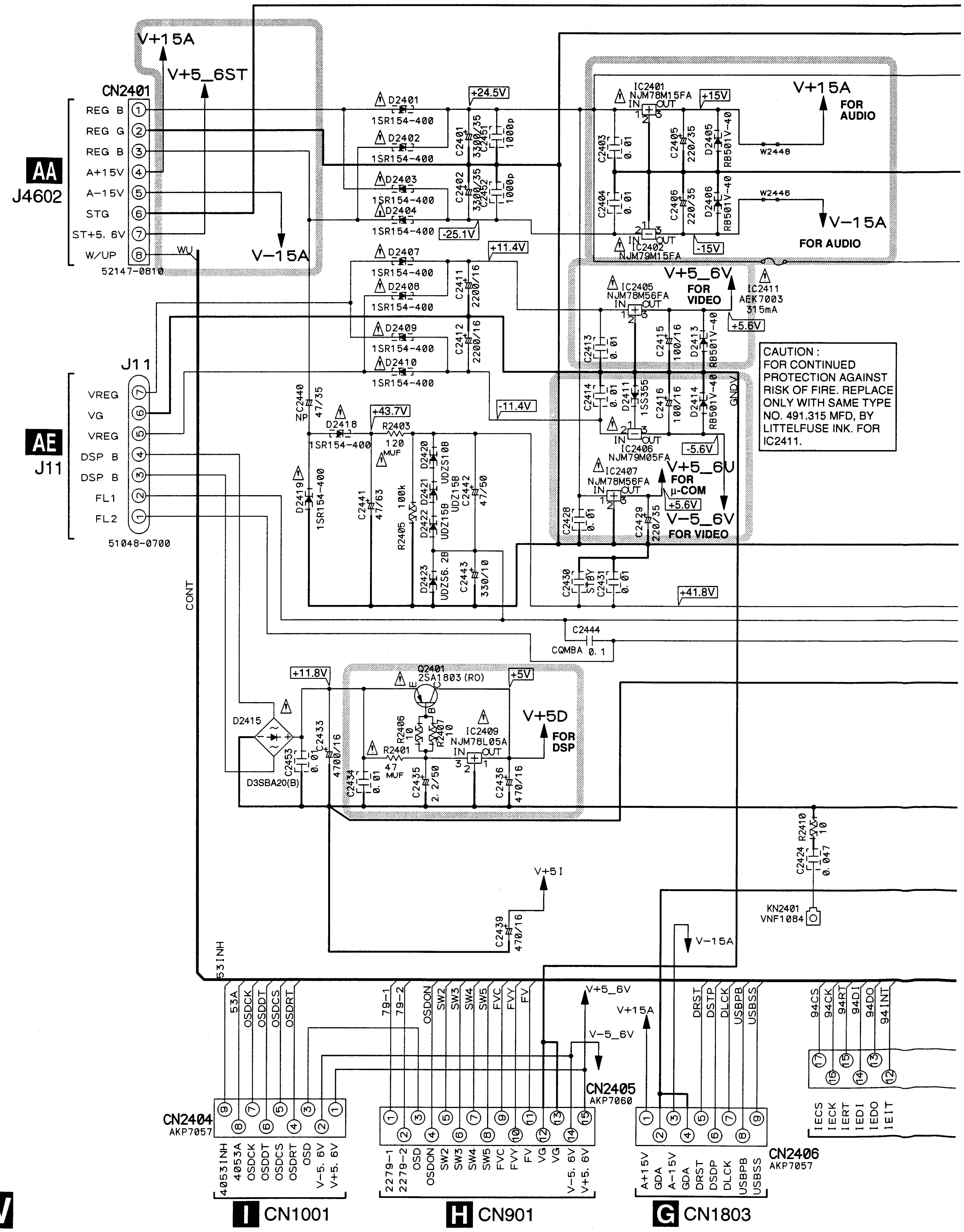
(HP) ➡ : AUDIO SIGNAL ROUTE (PHONES ch)

V HEADPHONE ASSY (AWX7980)


CN1951
R1951
1k
HPSW
HPL
HPR
S CN3007
52045-0345
JA1951
AKN7029
PHONES
(HP)
C1951 3900p
C1952 3900p
KN1951
VNF1084

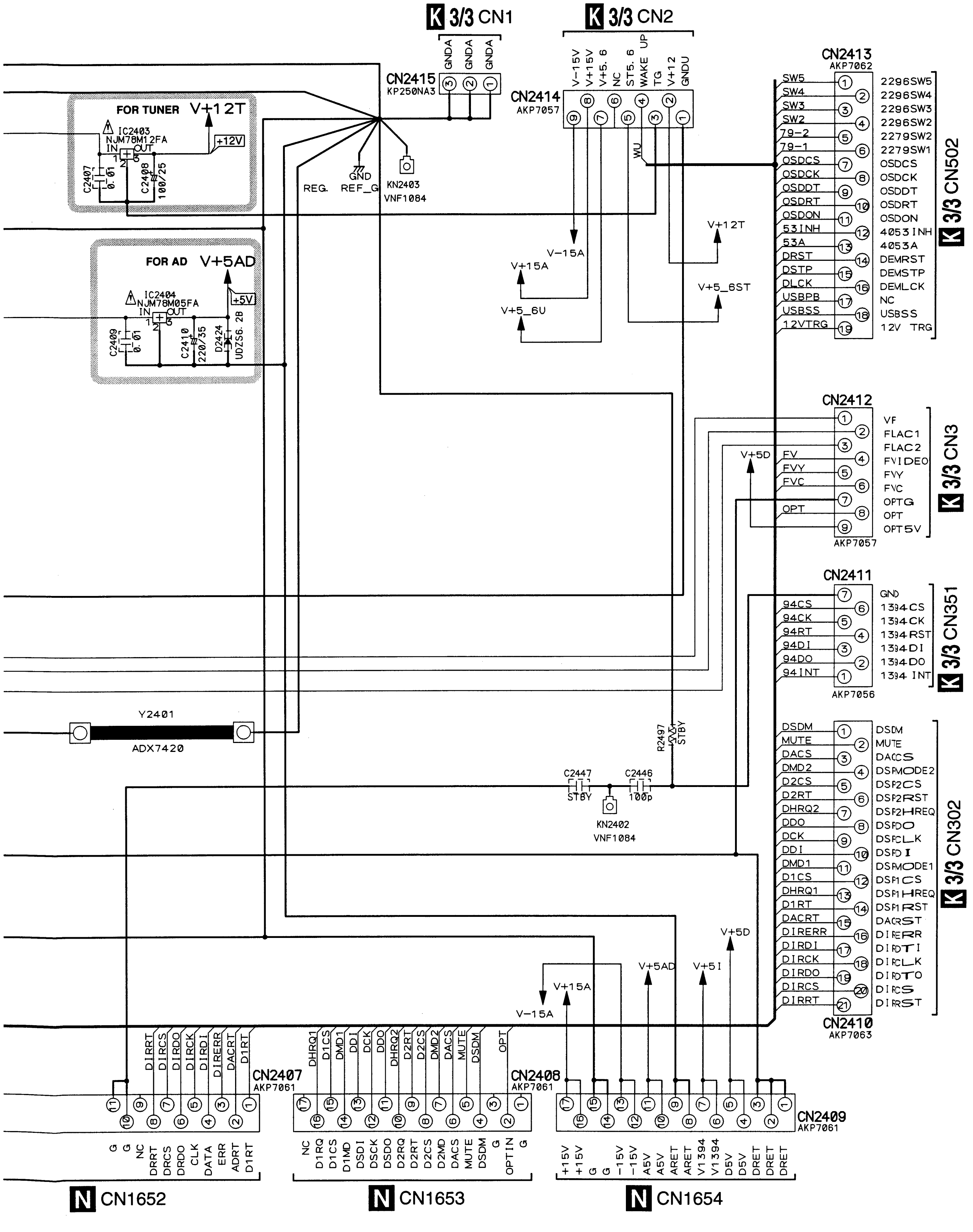
3.20 REGULATOR ASSY

W REGULATOR ASSY (AWX8020)


V+15A
V+5_6ST
CN2401
REG B ①
REG G ②
REG B ③
A+15V ④
A-15V ⑤
STG ⑥
ST+5. 6V ⑦
W/UP ⑧
52147-0810
AA J4602
WU
V-15A
D2401 1SR154-400
D2402 1SR154-400
D2403 1SR154-400
D2404 1SR154-400
+24.5V
-25.1V
C2401 3300/35
C2451 1000p
C2402 3300/35
C2452 1000p
IC2401 NJM78M15FA
IN OUT
+15V
C2403 0.01
C2405 220/35
D2405 RB501V-40
W2448
V+15A FOR AUDIO
C2404 0.01
C2406 220/35
D2406 RB501V-40
W2446
V-15A FOR AUDIO
IC2402 NJM79M15FA
-15V
D2407 1SR154-400
D2408 1SR154-400
D2409 1SR154-400
D2410 1SR154-400
+11.4V
-11.4V
C2411 2200/16
C2412 2200/16
V+5_6V FOR VIDEO
IC2405 NJM78M56FA
IC2411 AEK7003 315mA
+5.6V
C2413 0.01
C2415 100/16
D2413 RB501V-40
J11
VREG ⑦
VG ⑥
VREG ⑤
DSP B ④
DSP B ③
FL1 ②
FL2 ①
AE J11
51048-0700
C2440 47/35 NP
D2418 1SR154-400
+43.7V
R2403 120 MUF
C2414 0.01
D2411 1SS355
C2416 100/16
D2414 RB501V-40
GNDV
IC2406 NJM79M05FA
-5.6V
IC2407 NJM78M56FA
V+5_6U FOR μ-COM
+5.6V
V-5_6V FOR VIDEO
D2419 1SR154-400
C2441 47/63
R2405 100k
D2420 UDZS10B
D2421 UDZ15B
D2422 UDZ15B
C2442 47/50
D2423 UDZS6.2B
C2443 330/10
C2428 0.01
C2429 220/35
C2430 STBY
C2431 0.01
+41.8V
C2444 0.1 CQMBA
CONT
+11.8V
Q2401 2SA1803 (RO)
E C B
+5V
D2415 D3SBA20(B)
C2453 0.01
C2433 4700/16
R2406 10
R2407 10
R2401 47 MUF
C2434 0.01
C2435 2.2/50
IC2409 NJM78L05A
IN OUT
C2436 470/16
V+5D FOR DSP
R2410 10
C2424 0.047
KN2401 VNF1084
V+5I
C2439 470/16
V-15A
53INH
53A OSDCK OSDDT OSDCS OSDRT
79-1 79-2 OSDON SW2 SW3 SW4 SW5 FVC FVY FV
V+5_6V
V+15A
V-5_6V
DRST DSTP DLCK USBPB USBSS
94CS 94CK 94RT 94DI 94DO 94INT
CN2404 AKP7057
4053INH 4053A OSDCK OSDDT OSDCS OSDRT OSD V-5.6V V+5.6V
I CN1001
CN2405 AKP7060
2279-1 2279-2 OSD OSDON SW2 SW3 SW4 SW5 FVC FVY FV VG VG V-5.6V V+5.6V
H CN901
CN2406 AKP7057
A+15V GDA A-15V GDA DRST DSDP DLCK USBPB USBSS
G CN1803
IECS IECK IERT IEDI IEDO IEIT

CAUTION :
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491.315 MFD, BY LITTELFUSE INK. FOR IC2411.

W

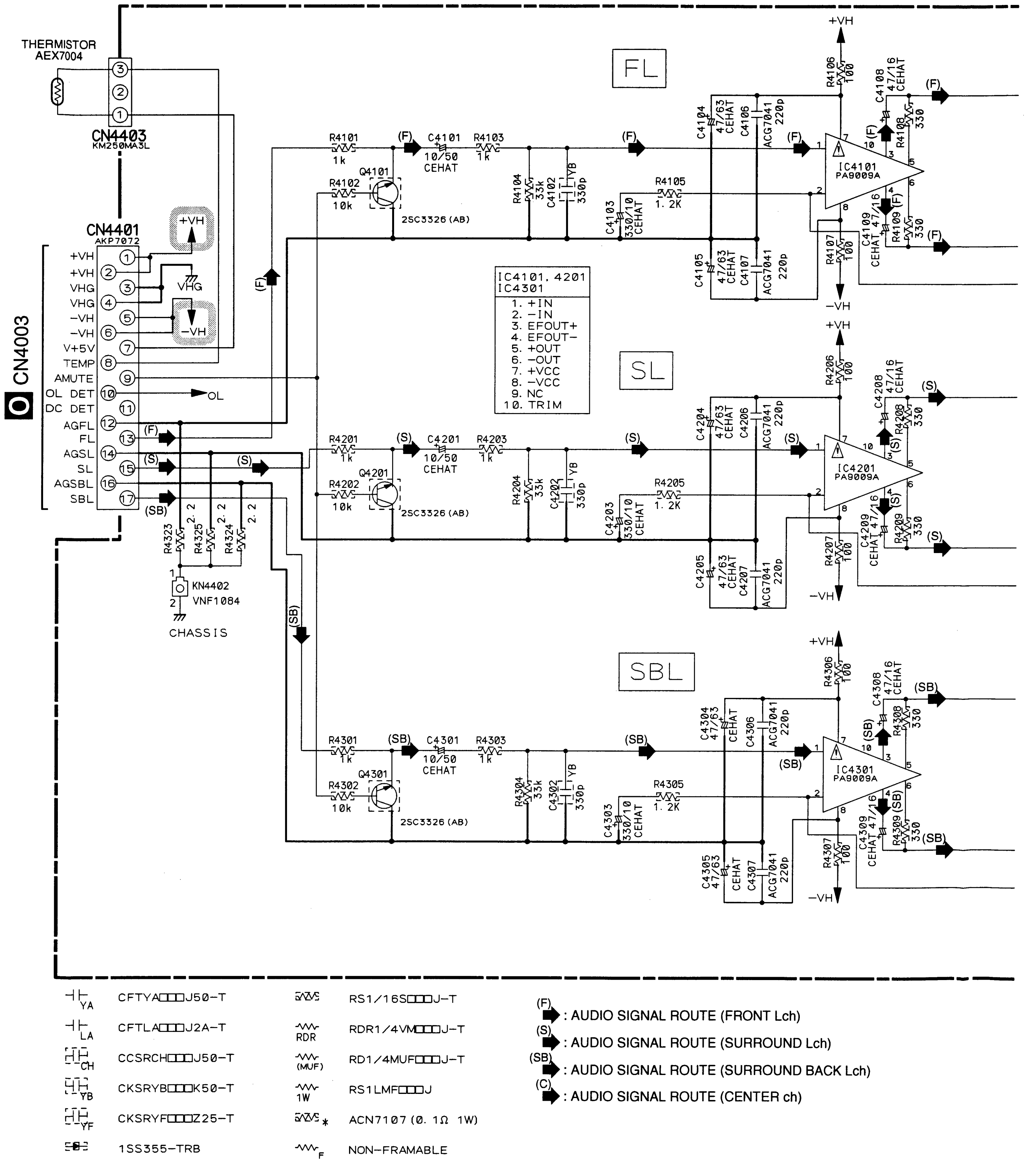

K 3/3 CN1
GNDA
GNDA
GNDA
CN2415
KP250NA3
K 3/3 CN2
V−15V
V+15V
V+5.6
NC
ST5.6
WAKE UP
TG
V+12
GNDU
CN2414
AKP7057
CN2413
AKP7062
FOR TUNER V+12T
IC2403
NJM78M12FA
IN OUT
+12V
C2407 0.01
C2408 100/25
REG.
GND
REF_G
KN2403
VNF1084
WU
FOR AD V+5AD
IC2404
NJM78M05FA
+5V
C2409 0.01
C2410 220/35
D2424 UDZS6.2B
V−15A
V+15A
V+5_6U
V+12T
V+5_6ST
SW5
SW4
SW3
SW2
79-2
79-1
OSDCS
OSDCK
OSDDT
OSDRT
OSDON
53INH
53A
DRST
DSTP
DLCK
USBPB
USBSS
12VTRG
2296SW5
2296SW4
2296SW3
2296SW2
2279SW2
2279SW1
OSDCS
OSDCK
OSDDT
OSDRT
OSDON
4053INH
4053A
DEMRST
DEMSTP
DEMLCK
NC
USBSS
12V TRG
K 3/3 CN502
CN2412
AKP7057
V+5D
FV
FVY
FVC
OPT
VF
FLAC1
FLAC2
FVIDEO
FVY
FVC
OPTG
OPT
OPT5V
K 3/3 CN3
CN2411
AKP7056
94CS
94CK
94RT
94DI
94DO
94INT
GND
1394CS
1394CK
1394RST
1394DI
1394DO
1394 INT
K 3/3 CN351
Y2401
ADX7420
R2497 STBY
C2447 STBY
C2446 100p
KN2402
VNF1084
DSDM
MUTE
DACS
DMD2
D2CS
D2RT
DHRQ2
DDO
DCK
DDI
DMD1
D1CS
DHRQ1
D1RT
DACRT
DIRERR
DIRDI
DIRCK
DIRDO
DIRCS
DIRRT
DSDM
MUTE
DACCS
DSPMODE2
DSP2CS
DSP2RST
DSP2HREQ
DSPDO
DSPCLK
DSPDI
DSPMODE1
DSP1CS
DSP1HREQ
DSP1RST
DACRST
DIRERR
DIRDTI
DIRCLK
DIRDTO
DIRCS
DIRRST
K 3/3 CN302
CN2410
AKP7063
V+5D
V+5AD
V+5I
V+15A
V−15A
DIRRT
DIRCS
DIRDO
DIRCK
DIRDI
DIRERR
DACRT
D1RT
CN2407
AKP7061
DHRQ1
D1CS
DMD1
DDI
DCK
DDO
DHRQ2
D2RT
D2CS
DMD2
DACS
MUTE
DSDM
OPT
CN2408
AKP7061
CN2409
AKP7061
G
G
NC
DRRT
DRCS
DRDO
CLK
DATA
ERR
ADRT
D1RT
NC
D1RQ
D1CS
D1MD
DSDI
DSCK
DSDO
D2RQ
D2RT
D2CS
D2MD
DACS
MUTE
DSDM
G
OPTIN
G
+15V
+15V
G
G
−15V
−15V
A5V
A5V
ARET
ARET
V1394
V1394
D5V
D5V
DRET
DRET
DRET
N CN1652
N CN1653
N CN1654
5
6
7
8
A
B
C
D
E
F

: The power supply is shown with the marked box.

W

3.21 POWER AMP-L ASSY

X POWER AMP-L ASSY (AWX7984)

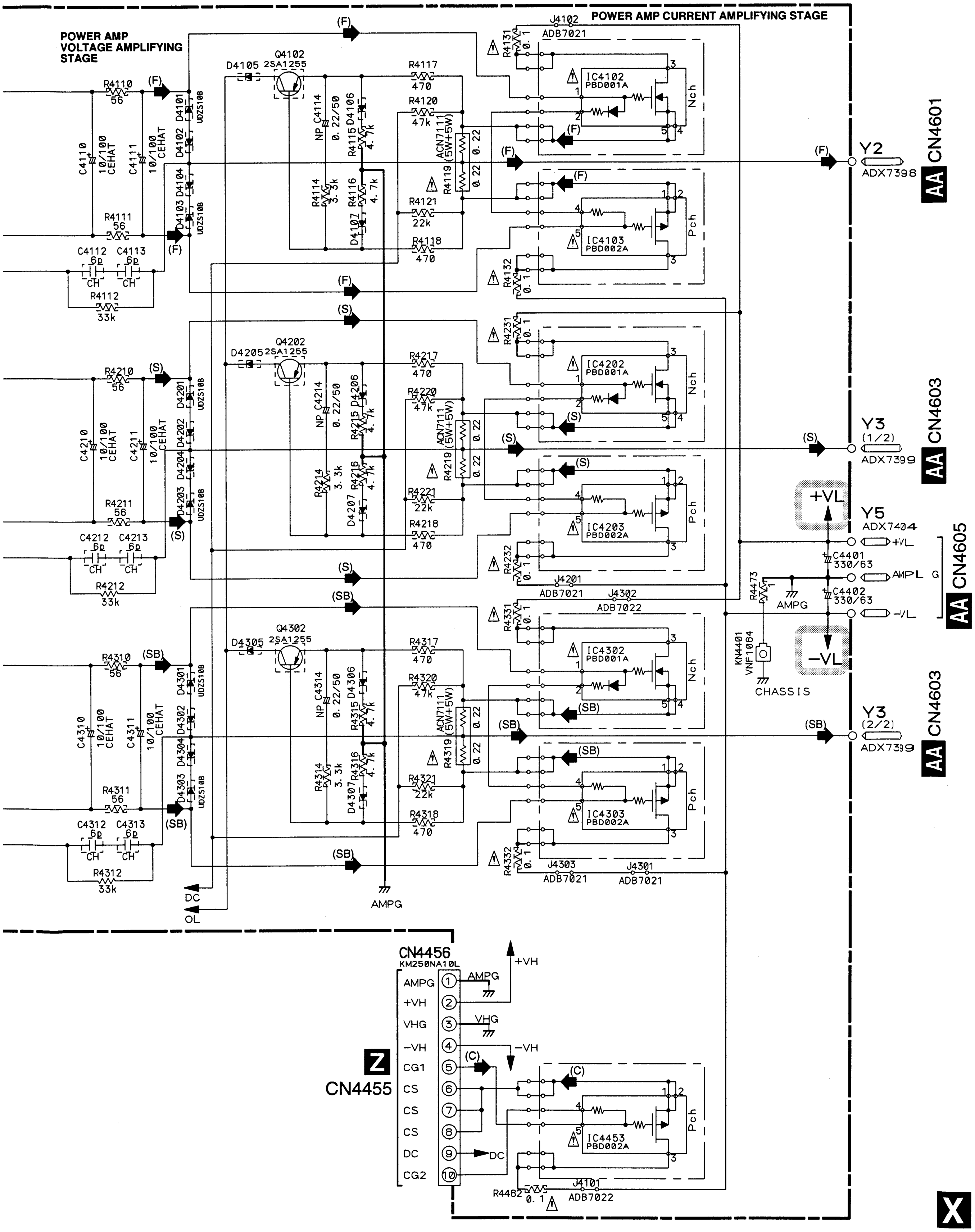

A
B
C
D
E
THERMISTOR AEX7004
CN4403 KM250MA3L
CN4401 AKP7072
O CN4003
+VH
+VH
VHG
VHG
-VH
-VH
V+5V
TEMP
AMUTE
OL DET
DC DET
AGFL
FL
AGSL
SL
AGSBL
SBL
OL
VHG
KN4402 VNF1084
CHASSIS
R4323 2.2
R4325 2.2
R4324 2.2
FL
SL
SBL
R4101 1k
R4102 10k
Q4101 2SC3326 (AB)
C4101 10/50 CEHAT
R4103 1k
R4104 33k
C4102 YB 330p
C4103 330/10 CEHAT
R4105 1.2K
C4104 47/63 CEHAT
C4106 ACG7041 220p
C4105 47/63 CEHAT
C4107 ACG7041 220p
R4106 100
R4107 100
C4108 47/16 CEHAT
C4109 47/16 CEHAT
R4108 330
R4109 330
IC4101 PA9009A
IC4101, 4201
IC4301
1. +IN
2. -IN
3. EFOUT+
4. EFOUT-
5. +OUT
6. -OUT
7. +VCC
8. -VCC
9. NC
10. TRIM
R4201 1k
R4202 10k
Q4201 2SC3326 (AB)
C4201 10/50 CEHAT
R4203 1k
R4204 33k
C4202 YB 330p
C4203 330/10 CEHAT
R4205 1.2K
C4204 47/63 CEHAT
C4206 ACG7041 220p
C4205 47/63 CEHAT
C4207 ACG7041 220p
R4206 100
R4207 100
C4208 47/16
C4209 CEHAT 47/16
R4208 330
R4209 330
IC4201 PA9009A
R4301 1k
R4302 10k
Q4301 2SC3326 (AB)
C4301 10/50 CEHAT
R4303 1k
R4304 33k
C4302 YB 330p
C4303 330/10 CEHAT
R4305 1.2K
C4304 47/63 CEHAT
C4306 ACG7041 220p
C4305 47/63 CEHAT
C4307 ACG7041 220p
R4306 100
R4307 100
C4308 47/16 CEHAT
C4309 CEHAT 47/16
R4308 330
R4309 330
IC4301 PA9009A
(F)
(S)
(SB)
-VH

YA CFTYA□□□J50-T
LA CFTLA□□□J2A-T
CH CCSRCH□□□J50-T
YB CKSRYB□□□K50-T
YF CKSRYF□□□Z25-T
1SS355-TRB

RS1/16S□□□J-T
RDR RDR1/4VM□□□J-T
(MUF) RD1/4MUF□□□J-T
1W RS1LMF□□□J
* ACN7107 (0.1Ω 1W)
F NON-FRAMABLE

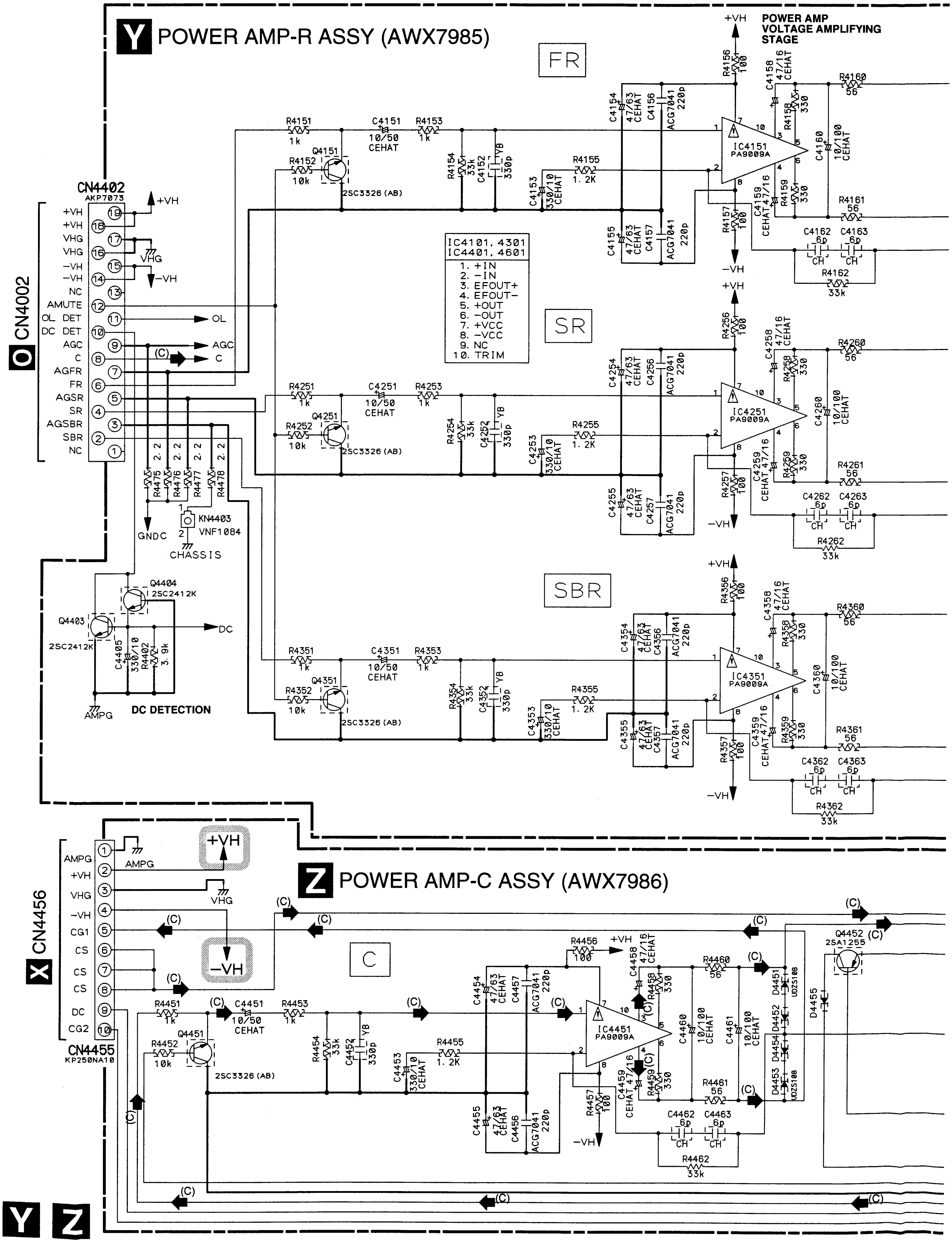
(F) : AUDIO SIGNAL ROUTE (FRONT Lch)
(S) : AUDIO SIGNAL ROUTE (SURROUND Lch)
(SB) : AUDIO SIGNAL ROUTE (SURROUND BACK Lch)
(C) : AUDIO SIGNAL ROUTE (CENTER ch)

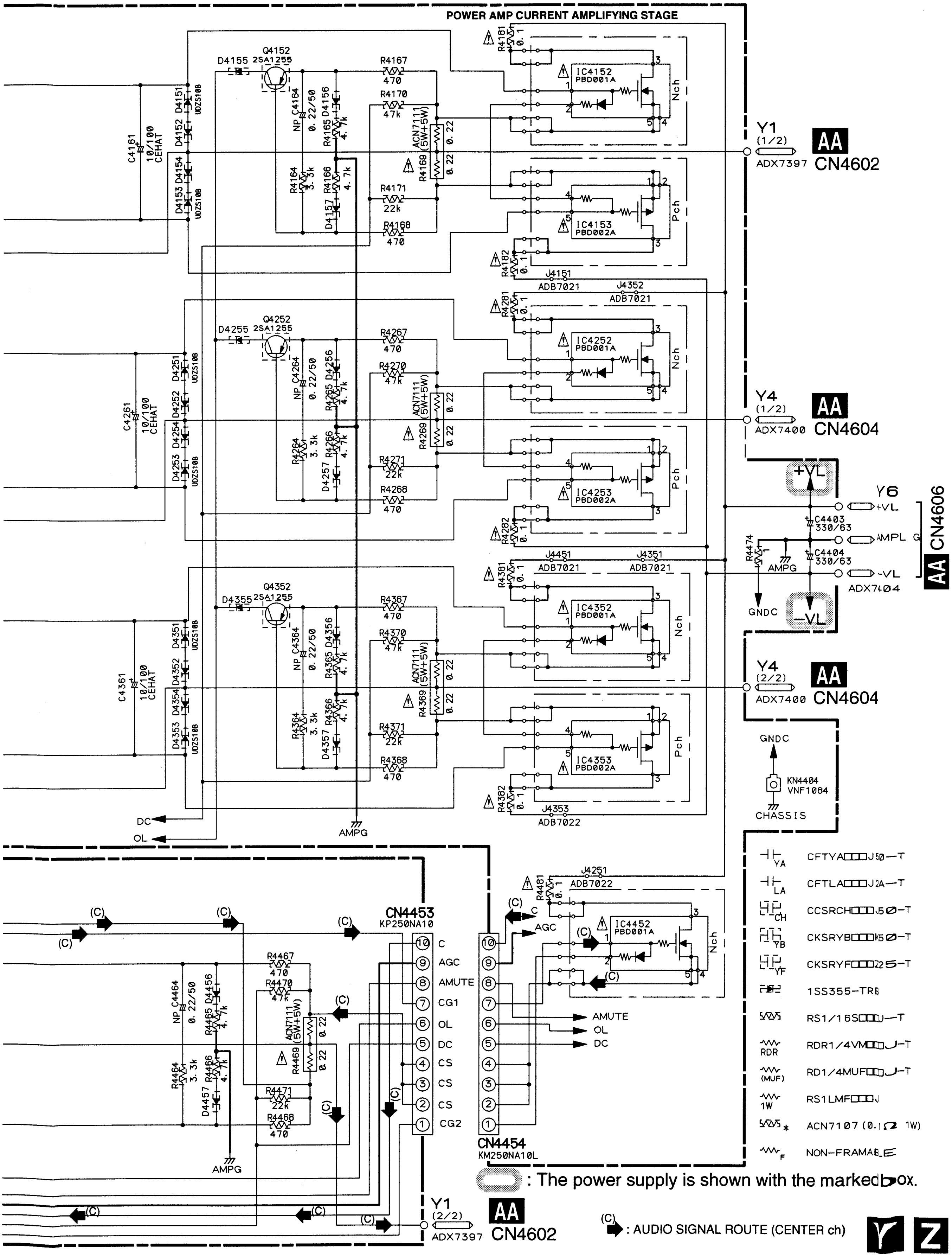
: The power supply is shown with the marked box.


POWER AMP VOLTAGE AMPLIFYING STAGE
POWER AMP CURRENT AMPLIFYING STAGE
Q4102 2SA1255
Q4202 2SA1255
Q4302 2SA1255
D4105
D4205
D4305
R4110 56
R4111 56
R4112 33k
R4210 56
R4211 56
R4212 33k
R4310 56
R4311 56
R4312 33k
C4110 10/100 CEHAT
C4111 10/100 CEHAT
C4210 10/100 CEHAT
C4211 10/100 CEHAT
C4310 10/100 CEHAT
C4311 10/100 CEHAT
C4112 6p CH
C4113 6p CH
C4212 6p CH
C4213 6p CH
C4312 6p CH
C4313 6p CH
D4101
D4102
D4103
D4104
UDZS10B
NP C4114 0.22/50
R4114 3.3k
R4115 4.7k
R4116 4.7k
D4106
D4107
R4117 470
R4120 47k
R4121 22k
R4118 470
ACN7111 (5W+5W)
R4119 0.22 0.22
R4131 0.1
R4132 0.1
J4102 ADB7021
IC4102 PBD001A
IC4103 PBD002A
Nch
Pch
IC4202 PBD001A
IC4203 PBD002A
R4217 470
R4220 47k
R4221 22k
R4218 470
R4219
R4231 0.1
R4232 0.1
J4201 ADB7021
J4302 ADB7022
IC4302 PBD001A
IC4303 PBD002A
R4317 470
R4320 47k
R4321 22k
R4318 470
R4319
R4331 0.1
R4332 0.1
J4303 ADB7021
J4301 ADB7021
(F)
(S)
(SB)
(C)
Y2 ADX7398
AA CN4601
Y3 (1/2) ADX7399
AA CN4603
Y5 ADX7404
+VL
AMPL G
-VL
AA CN4605
Y3 (2/2) ADX7399
AA CN4603
C4401 330/63
C4402 330/63
R4473
AMPG
KN4401 VNF1084
CHASSIS
DC
OL
AMPG
CN4456 KM250NA10L
AMPG ①
+VH ②
VHG ③
-VH ④
CG1 ⑤
CS ⑥
CS ⑦
CS ⑧
DC ⑨
CG2 ⑩
+VH
VHG
-VH
Z CN4455
IC4453 PBD002A
R4482 0.1
J4101 ADB7022

X

3.22 POWER AMP-R and POWER AMP-C ASSYS

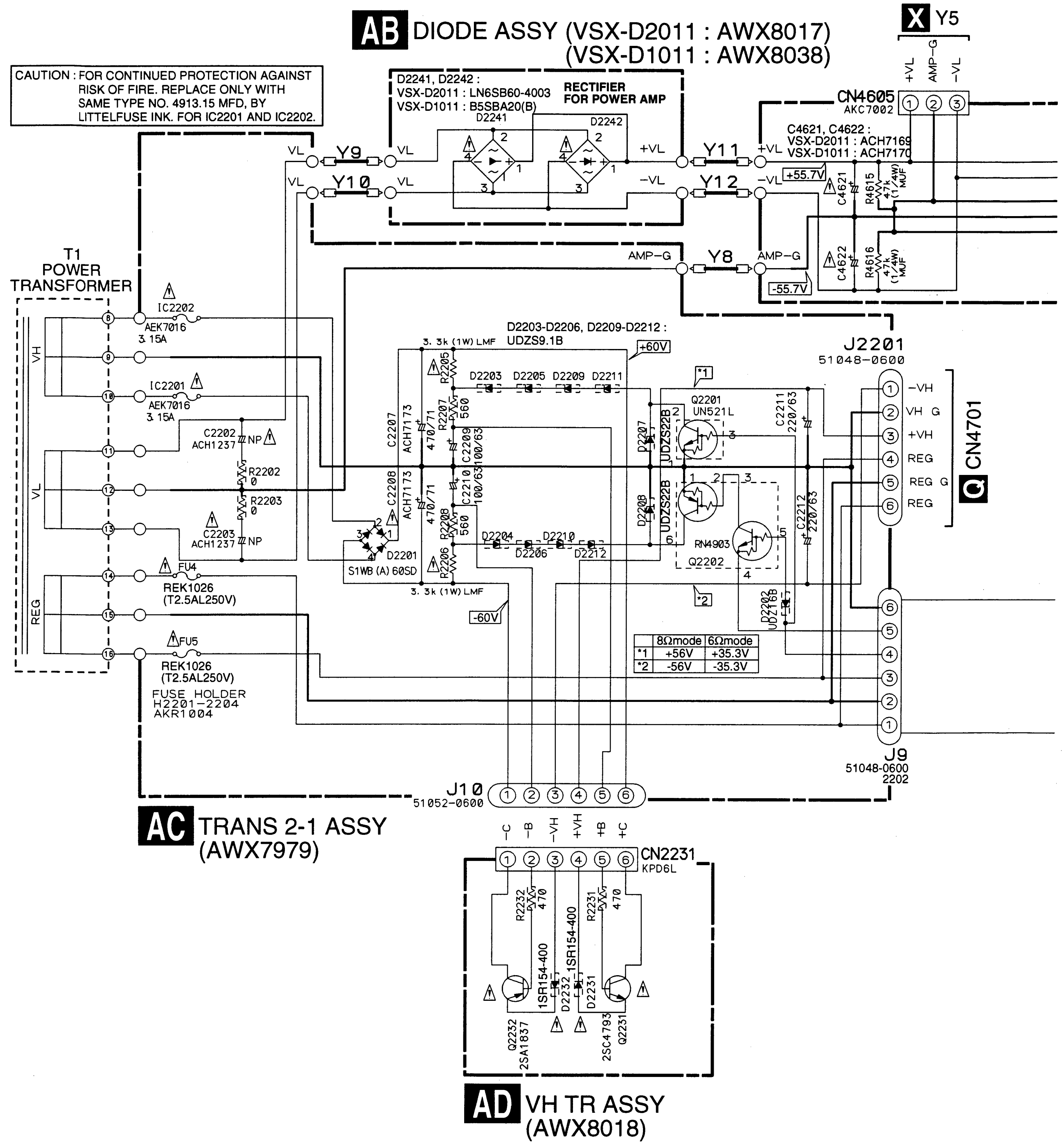

Y POWER AMP-R ASSY (AWX7985)
FR
SR
SBR
POWER AMP VOLTAGE AMPLIFYING STAGE
+VH
-VH
CN4402
AKP7073
O CN4002
+VH
+VH
VHG
VHG
-VH
-VH
NC
AMUTE
OL DET
DC DET
AGC
C
AGFR
FR
AGSR
SR
AGSBR
SBR
NC
OL
AGC
C
(C)
VHG
IC4101, 4301
IC4401, 4601
1. +IN
2. -IN
3. EFOUT+
4. EFOUT-
5. +OUT
6. -OUT
7. +VCC
8. -VCC
9. NC
10. TRIM
R4151 1k
C4151 10/50 CEHAT
R4153 1k
R4152 10k
Q4151
2SC3326 (AB)
R4154 33k
C4152 330p YB
C4153 330/10 CEHAT
R4155 1.2K
C4154 47/63 CEHAT
C4156 ACG7041 220p
C4155 47/63 CEHAT
C4157 ACG7041 220p
IC4151 PA9009A
R4156 100
R4157 100
C4158 47/16 CEHAT
C4159 CEHAT 47/16
R4158 330
R4159 330
R4160 56
R4161 56
C4160 10/100 CEHAT
C4162 6p CH
C4163 6p CH
R4162 33k
R4251 1k
C4251 10/50 CEHAT
R4253 1k
R4252 10k
Q4251
2SC3326 (AB)
R4254 33k
C4252 330p YB
C4253 330/10 CEHAT
R4255 1.2K
C4254 47/63 CEHAT
C4256 ACG7041 220p
C4255 47/63 CEHAT
C4257 ACG7041 220p
IC4251 PA9009A
R4256 100
R4257 100
C4258 47/16 CEHAT
C4259 CEHAT 47/16
R4258 330
R4259 330
R4260 56
R4261 56
C4260 10/100 CEHAT
C4262 6p CH
C4263 6p CH
R4262 33k
R4351 1k
C4351 10/50 CEHAT
R4353 1k
R4352 10k
Q4351
2SC3326 (AB)
R4354 33k
C4352 330p YB
C4353 330/10 CEHAT
R4355 1.2K
C4354 47/63 CEHAT
C4356 ACG7041 220p
C4355 47/63 CEHAT
C4357 ACG7041 220p
IC4351 PA9009A
R4356 100
R4357 100
C4358 47/16 CEHAT
C4359 CEHAT 47/16
R4358 330
R4359 330
R4360 56
R4361 56
C4360 10/100 CEHAT
C4362 6p CH
C4363 6p CH
R4362 33k
R4475 2.2
R4476 2.2
R4477 2.2
R4478 2.2
KN4403 VNF1084
GNDC
CHASSIS
Q4404 2SC2412K
Q4403 2SC2412K
C4405 330/10
R4402 3.9k
DC
AMPG
DC DETECTION
Z POWER AMP-C ASSY (AWX7986)
X CN4456
CN4455
KP250NA10
AMPG
+VH
VHG
-VH
CG1
CS
CS
CS
DC
CG2
AMPG
VHG
+VH
-VH
C
R4451 1k
C4451 10/50 CEHAT
R4453 1k
R4452 10k
Q4451
2SC3326 (AB)
R4454 33k
C4452 330p YB
C4453 330/10 CEHAT
R4455 1.2K
C4454 47/63 CEHAT
C4457 ACG7041 220p
C4455 47/63 CEHAT
C4456 ACG7041 220p
IC4451 PA9009A
R4456 100
R4457 100
C4458 47/16 CEHAT
C4459 CEHAT 47/16
R4458 330
R4459 330
R4460 56
R4461 56
C4460 10/100 CEHAT
C4461 10/100 CEHAT
C4462 6p CH
C4463 6p CH
R4462 33k
D4451
D4452
D4453
D4454
UDZS10B
D4455
Q4452 2SA1255
(C)
Y Z


POWER AMP CURRENT AMPLIFYING STAGE
Q4152 2SA1255
D4155
R4167 470
R4170 47k
R4171 22k
R4168 470
R4164 3.3k
R4165 4.7k
R4166 4.7k
D4156
D4157
NP C4164 0.22/50
ACN7111 (5W+5W)
R4169 0.22 0.22
C4161 10/100 CEHAT
D4151 D4152 D4154 D4153 UDZS10B
R4181 0.1
IC4152 PBD001A
IC4153 PBD002A
Nch
Pch
R4182 0.1
J4151 ADB7021
J4352 ADB7021
Y1 (1/2) ADX7397
AA CN4602
Q4252 2SA1255
D4255
R4267 470
R4270 47k
R4271 22k
R4268 470
R4264 3.3k
R4265 4.7k
R4266 4.7k
D4256
D4257
NP C4264 0.22/50
ACN7111 (5W+5W)
R4269 0.22 0.22
C4261 10/100 CEHAT
D4251 D4252 D4254 D4253 UDZS10B
R4281 0.1
IC4252 PBD001A
IC4253 PBD002A
R4282 0.1
J4451 ADB7021
J4351 ADB7021
Y4 (1/2) ADX7400
AA CN4604
+VL
-VL
Y6
+VL
AMPL G
-VL
C4403 330/63
C4404 330/63
R4474
AMPG
GNDC
ADX7404
AA CN4606
Q4352 2SA1255
D4355
R4367 470
R4370 47k
R4371 22k
R4368 470
R4364 3.3k
R4365 4.7k
R4366 4.7k
D4356
D4357
NP C4364 0.22/50
ACN7111 (5W+5W)
R4369 0.22 0.22
C4361 10/100 CEHAT
D4351 D4352 D4354 D4353 UDZS10B
R4381 0.1
IC4352 PBD001A
IC4353 PBD002A
R4382 0.1
J4353 ADB7022
Y4 (2/2) ADX7400
AA CN4604
GNDC
KN4404 VNF1084
CHASSIS
DC
OL
AMPG
(C)
CN4453 KP250NA10
⑩ C
⑨ AGC
⑧ AMUTE
⑦ CG1
⑥ OL
⑤ DC
④ CS
③ CS
② CS
① CG2
R4467 470
R4470 47k
R4471 22k
R4468 470
R4464 3.3k
R4465 4.7k
R4466 4.7k
D4456
D4457
NP C4464 0.22/50
ACN7111 (5W+5W)
R4469 0.22 0.22
AMPG
CN4454 KM250NA10L
J4251 ADB7022
R4481 0.1
IC4452 PBD001A
C
AGC
AMUTE
OL
DC
Y1 (2/2) ADX7397
AA CN4602
CFTYA□□□J50—T (YA)
CFTLA□□□J2A—T (LA)
CCSRCH□□□J50-T (CH)
CKSRYB□□□K50-T (YB)
CKSRYF□□□Z25-T (YF)
1SS355-TRB
RS1/16S□□□J—T
RDR1/4VM□□□J-T (RDR)
RD1/4MUF□□□J-T (MUF)
RS1LMF□□□J (1W)
ACN7107 (0.1Ω 1W) *
NON-FRAMABLE (F)
Y
Z

: The power supply is shown with the marked box.

(C) : AUDIO SIGNAL ROUTE (CENTER ch)

3.23 SP/PS, DIODE, TRANS 2-1 and VH TR ASSYS



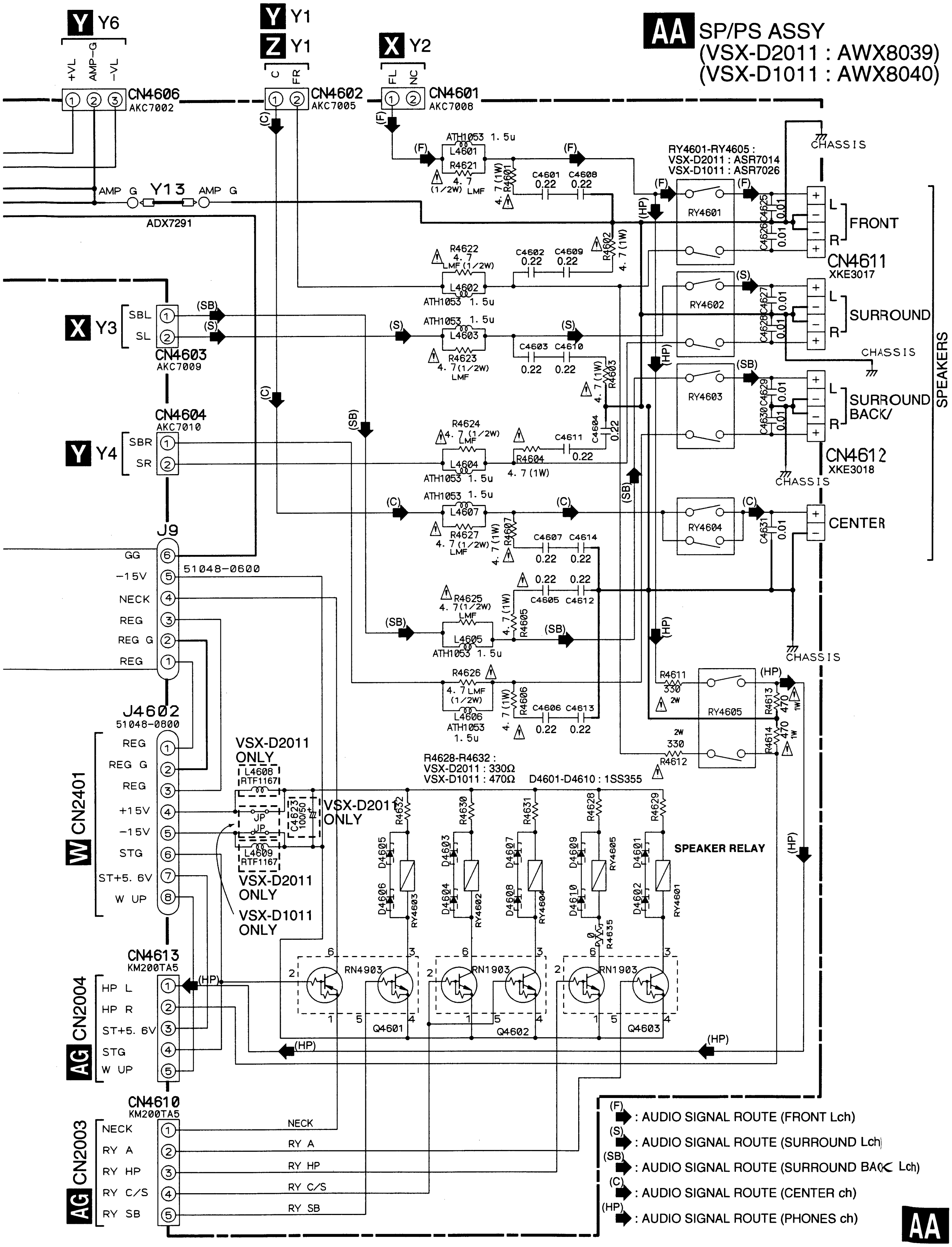
AB DIODE ASSY (VSX-D2011 : AWX8017)
(VSX-D1011 : AWX8038)
X Y5
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 4913.15 MFD, BY LITTELFUSE INK. FOR IC2201 AND IC2202.
D2241, D2242 :
VSX-D2011 : LN6SB60-4003
VSX-D1011 : B5SBA20(B)
RECTIFIER FOR POWER AMP
D2241
D2242
VL
Y9
Y10
+VL
-VL
Y11
Y12
Y8
AMP-G
+VL
AMP-G
-VL
CN4605
AKC7002
C4621, C4622 :
VSX-D2011 : ACH7169
VSX-D1011 : ACH7170
+55.7V
-55.7V
C4621
C4622
R4615 4.7k (1/4W) MUF
R4616 4.7k (1/4W) MUF
T1
POWER TRANSFORMER
VH
VL
REG
IC2202
AEK7016 3.15A
IC2201
AEK7016 3.15A
C2202 ACH1237 NP
R2202 0
R2203 0
C2203 ACH1237 NP
FU4
REK1026 (T2.5AL250V)
FU5
REK1026 (T2.5AL250V)
FUSE HOLDER H2201-2204 AKR1004
D2203-D2206, D2209-D2212 :
UDZS9.1B
3.3k (1W) LMF
+60V
-60V
R2205
D2203 D2205 D2209 D2211
C2207 ACH7173
R2207 560
C2209 100/63
C2208 ACH7173
C2210 100/63
R2208 560
R2206
470/71
D2204 D2206 D2210 D2212
D2201 S1WB (A) 60SD
D2207 UDZS22B
D2208 UDZS22B
*1
*2
Q2201 UN521L
RN4903 Q2202
C2211 220/63
C2212 220/63
D2202 UDZ16B
	8Ωmode	6Ωmode
*1	+56V	+35.3V
*2	-56V	-35.3V
J2201 51048-0600
-VH
VH G
+VH
REG
REG G
REG
Q CN4701
J9 51048-0600 2202
J10 51052-0600
AC TRANS 2-1 ASSY (AWX7979)
-C -B -VH +VH +B +C
CN2231 KPD6L
R2232 470
R2231 470
1SR154-400 D2232
1SR154-400 D2231
Q2232 2SA1837
Q2231 2SC4793
AD VH TR ASSY (AWX8018)

- NOTE FOR FUSE REPLACEMENT

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE AND RATINGS ONLY.

AA AB AC AD

AA SP/PS ASSY (VSX-D2011 : AWX8039) (VSX-D1011 : AWX8040)


Y Y6
+VL
AMP-G
-VL
CN4606
AKC7002
Y Y1
Z Y1
C
FR
CN4602
AKC7005
X Y2
FL
NC
CN4601
AKC7008
AMP G
Y13
AMP G
ADX7291
ATH1053 1.5u
L4601
R4621
4.7
(1/2W) LMF
R4601
4.7(1W)
C4601
0.22
C4608
0.22
RY4601-RY4605 :
VSX-D2011 : ASR7014
VSX-D1011 : ASR7026
CHASSIS
RY4601
C4625
0.01
C4626
0.01
FRONT
CN4611
XKE3017
R4622
4.7
LMF(1/2W)
L4602
ATH1053 1.5u
C4602
0.22
C4609
0.22
R4602
4.7(1W)
RY4602
C4627
0.01
C4628
0.01
SURROUND
CHASSIS
SPEAKERS
X Y3
SBL
SL
CN4603
AKC7009
ATH1053 1.5u
L4603
R4623
4.7(1/2W)
LMF
C4603
0.22
C4610
0.22
R4603
4.7(1W)
RY4603
C4629
0.01
C4630
0.01
SURROUND BACK/
CN4604
AKC7010
Y Y4
SBR
SR
R4624
4.7(1/2W)
LMF
L4604
ATH1053 1.5u
R4604
4.7(1W)
C4611
0.22
C4604
0.22
CN4612
XKE3018
CHASSIS
ATH1053 1.5u
L4607
R4627
4.7(1/2W)
LMF
R4607
4.7(1W)
C4607
0.22
C4614
0.22
RY4604
C4631
0.01
CENTER
J9
GG
-15V
NECK
REG
REG G
REG
51048-0600
C4605
0.22
C4612
0.22
R4625
4.7(1/2W)
LMF
L4605
ATH1053 1.5u
R4605
4.7(1W)
CHASSIS
R4626
4.7 LMF
(1/2W)
L4606
ATH1053
1.5u
R4606
4.7(1W)
C4606
0.22
C4613
0.22
R4611
330
2W
RY4605
R4612
330
2W
R4613
470
1W
R4614
470
1W
J4602
51048-0800
W CN2401
REG
REG G
REG
+15V
-15V
STG
ST+5.6V
W UP
VSX-D2011 ONLY
L4608
RTF1167
JP
JP
L4609
RTF1167
C4623
100/50
VSX-D2011 ONLY
VSX-D2011 ONLY
VSX-D1011 ONLY
R4628-R4632 :
VSX-D2011 : 330Ω
VSX-D1011 : 470Ω
D4601-D4610 : 1SS355
R4632
R4630
R4631
R4628
R4629
SPEAKER RELAY
D4605
D4606
RY4603
D4603
D4604
RY4602
D4607
D4608
RY4604
D4609
D4610
RY4605
D4601
D4602
RY4601
R4635
0
RN4903
RN1903
RN1903
Q4601
Q4602
Q4603
AG CN2004
CN4613
KM200TA5
HP L
HP R
ST+5.6V
STG
W UP
AG CN2003
CN4610
KM200TA5
NECK
RY A
RY HP
RY C/S
RY SB
NECK
RY A
RY HP
RY C/S
RY SB
(F)
(S)
(SB)
(C)
(HP)

(F) : AUDIO SIGNAL ROUTE (FRONT Lch)

(S) : AUDIO SIGNAL ROUTE (SURROUND Lch)

(SB) : AUDIO SIGNAL ROUTE (SURROUND BACK Lch)

(C) : AUDIO SIGNAL ROUTE (CENTER ch)

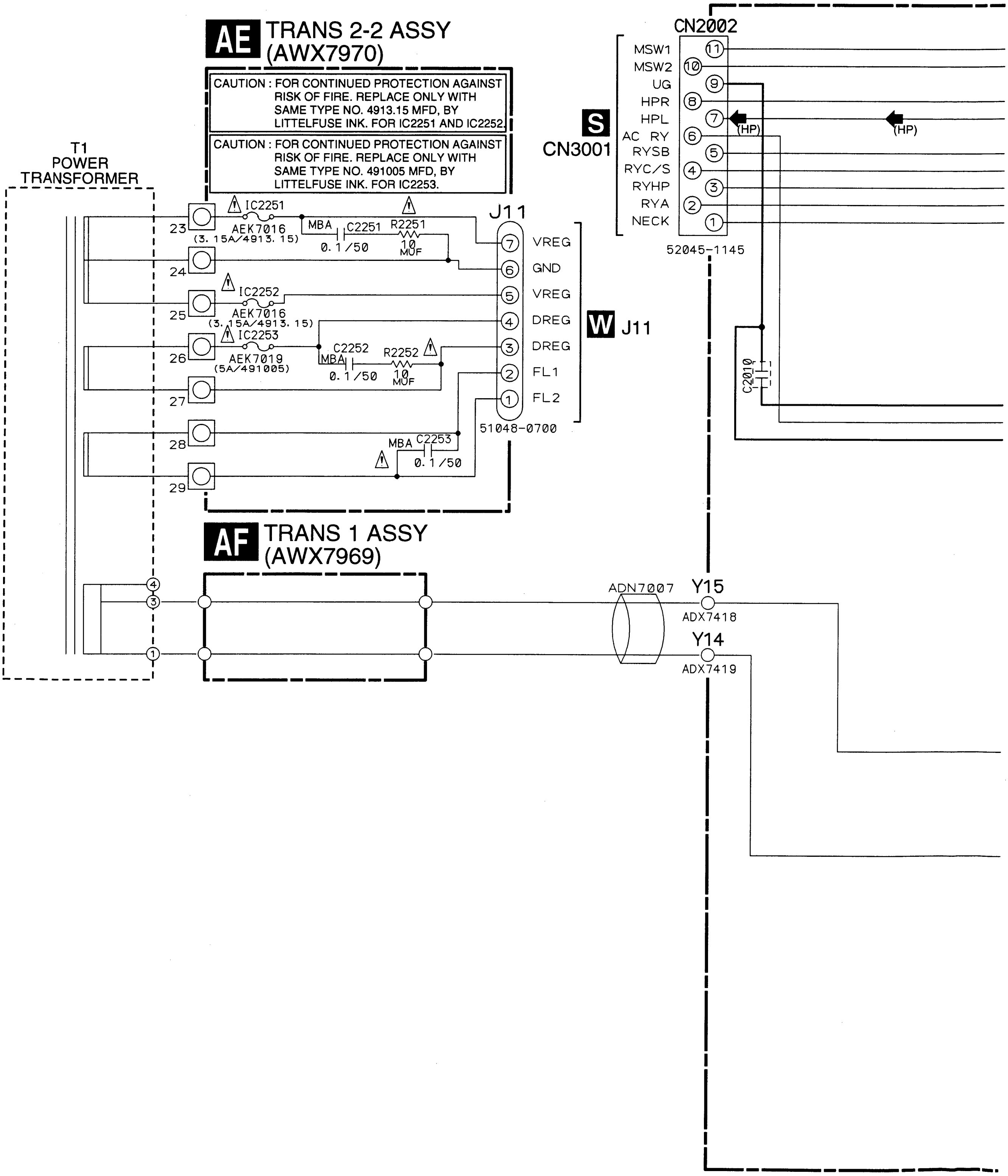
(HP) : AUDIO SIGNAL ROUTE (PHONES ch)

AA

3.24 TRANS 2-2, TRANS 1 and PRIMARY ASSYS

- NOTE FOR FUSE REPLACEMENT

CAUTION -FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE WITH SAME TYPE AND RATINGS ONLY.

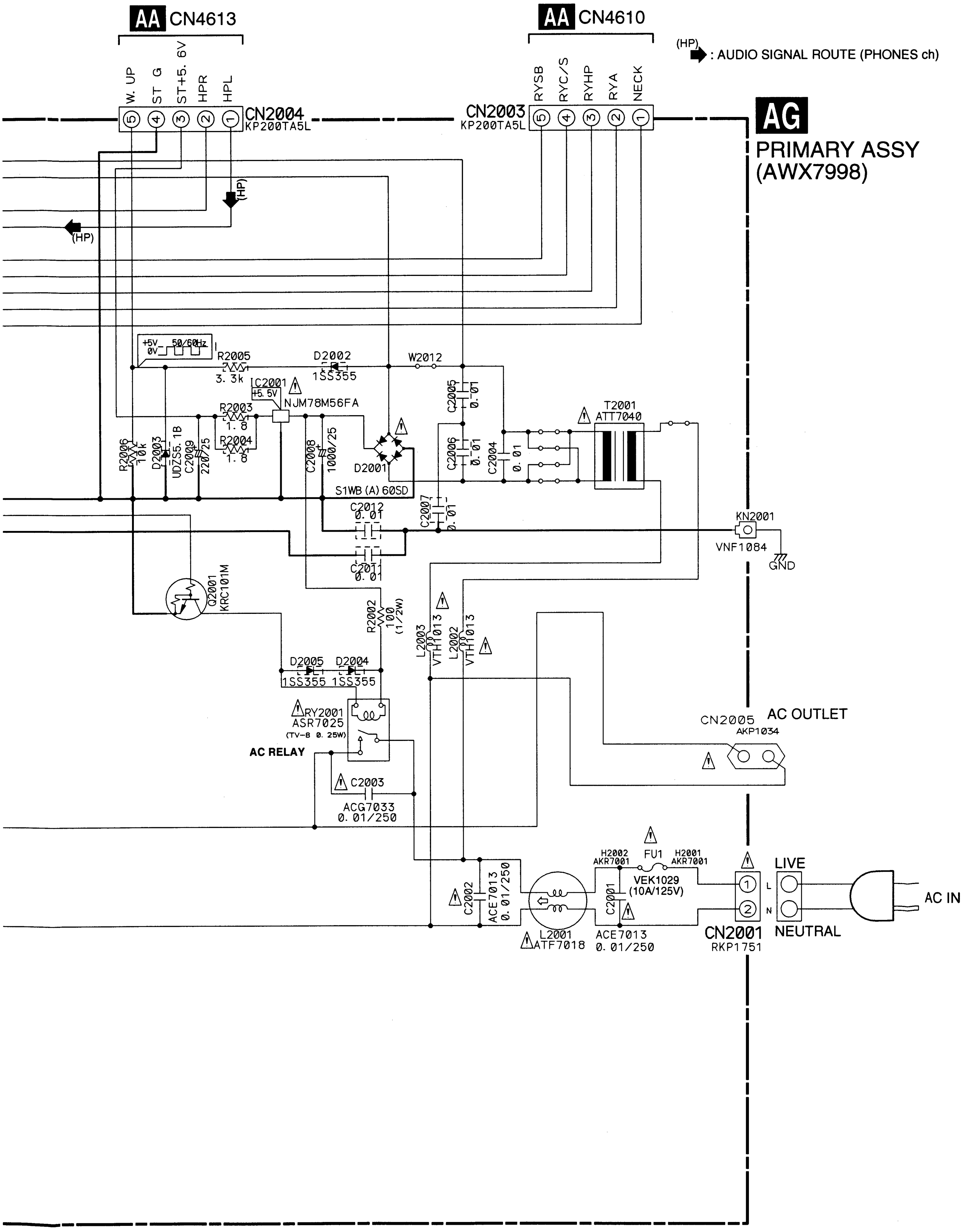


CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 4913.15 MFD, BY LITTELFUSE INK. FOR IC2251 AND IC2252.

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491005 MFD, BY LITTELFUSE INK. FOR IC2253.

AE
TRANS 2-2 ASSY
(AWX7970)
T1
POWER
TRANSFORMER
23
24
25
26
27
28
29
IC2251
AEK7016
(3.15A/4913.15)
MBA
C2251
0.1/50
R2251
10
MUF
IC2252
AEK7016
(3.15A/4913.15)
IC2253
AEK7019
(5A/491005)
C2252
MBA
0.1/50
R2252
10
MUF
MBA
C2253
0.1/50
J11
7 VREG
6 GND
5 VREG
4 DREG
3 DREG
2 FL1
1 FL2
51048-0700
W
J11
S
CN3001
CN2002
MSW1
MSW2
UG
HPR
HPL
AC RY
RYSB
RYC/S
RYHP
RYA
NECK
11
10
9
8
7
6
5
4
3
2
1
(HP)
(HP)
52045-1145
C2010
AF
TRANS 1 ASSY
(AWX7969)
4
3
1
ADN7007
Y15
ADX7418
Y14
ADX7419

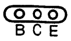
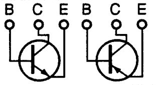
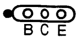
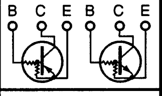
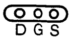
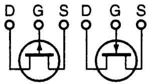
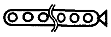
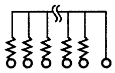
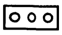
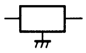
AE **AF** **AG**


AA CN4613
AA CN4610
(HP) : AUDIO SIGNAL ROUTE (PHONES ch)
W. UP
ST G
ST+5. 6V
HPR
HPL
CN2004
KP200TA5L
RYSB
RYC/S
RYHP
RYA
NECK
CN2003
KP200TA5L
AG
PRIMARY ASSY
(AWX7998)
(HP)
(HP)
+5V
0V
50/60Hz
R2005
3. 3k
D2002
1SS355
W2012
IC2001
+5. 5V
NJM78M56FA
R2003
1. 8
R2004
1. 8
R2006
10k
D2003
UDZS5. 1B
C2009
220/25
C2008
1000/25
D2001
S1WB (A) 60SD
C2005
0. 01
C2006
0. 01
C2004
0. 01
T2001
ATT7040
C2007
0. 01
C2012
0. 01
C2011
0. 01
KN2001
VNF1084
GND
Q2001
KRC101M
R2002
100
(1/2W)
L2003
VTH1013
L2002
VTH1013
D2005
1SS355
D2004
1SS355
RY2001
ASR7025
(TV-8 0. 25W)
AC RELAY
C2003
ACG7033
0. 01/250
CN2005
AKP1034
AC OUTLET
H2002
AKR7001
FU1
H2001
AKR7001
VEK1029
(10A/125V)
C2002
ACE7013
0. 01/250
C2001
ACE7013
0. 01/250
L2001
ATF7018
CN2001
RKP1751
LIVE
NEUTRAL
L
N
AC IN

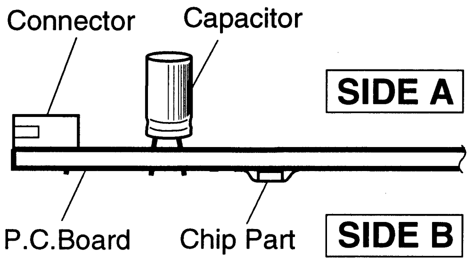
4. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

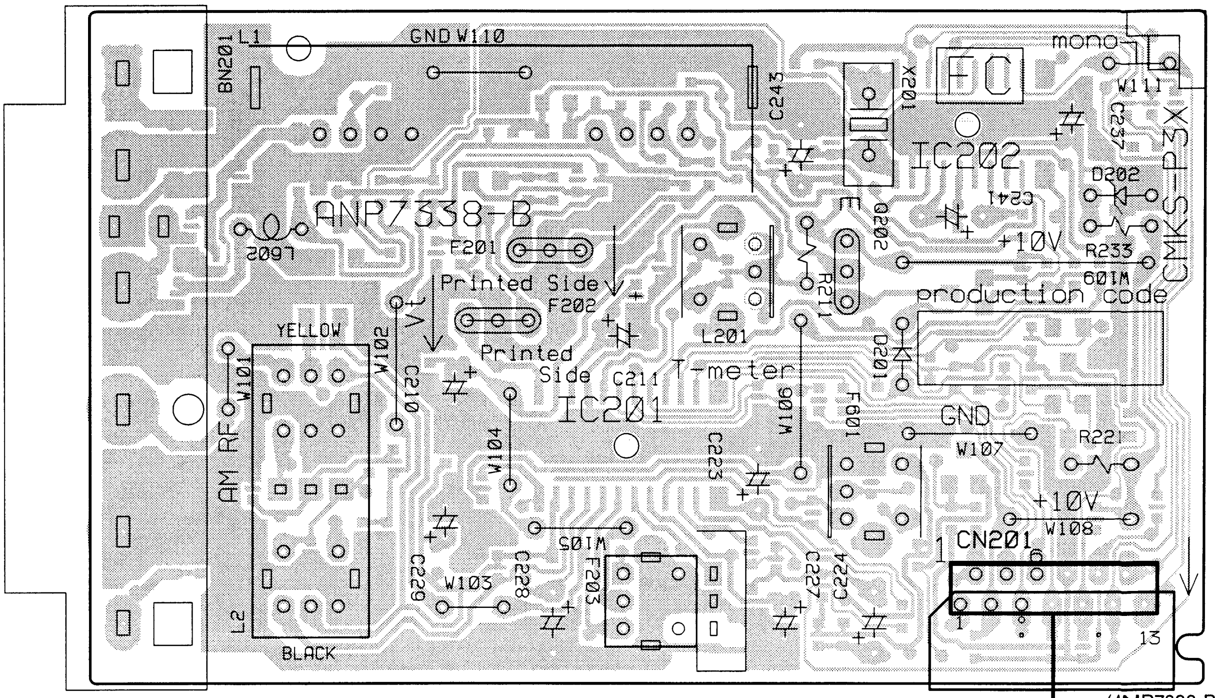
Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.


Connector
Capacitor
SIDE A
P.C.Board
Chip Part
SIDE B

4.1 FM/AM TUNER MODULE

SIDE A **A FM/AM TUNER MODULE** **SIDE A**


BN201
L1
GND W110
C243
X201
FC
IC202
mono
W111
C237
D202
C241
CMKS-P3X
ANP7338-B
L602
F201
Q202
+10V
R233
W109
R211
Printed Side
F202
production code
YELLOW
W102
Vt
L201
D201
W101
C210
Printed Side
C211
T-meter
AM RF
IC201
W106
F601
GND
W104
C223
W107
R221
+10V
W108
CN201
W105
1
6
C220
W103
C228
F203
C227
C224
1
13
L2
BLACK

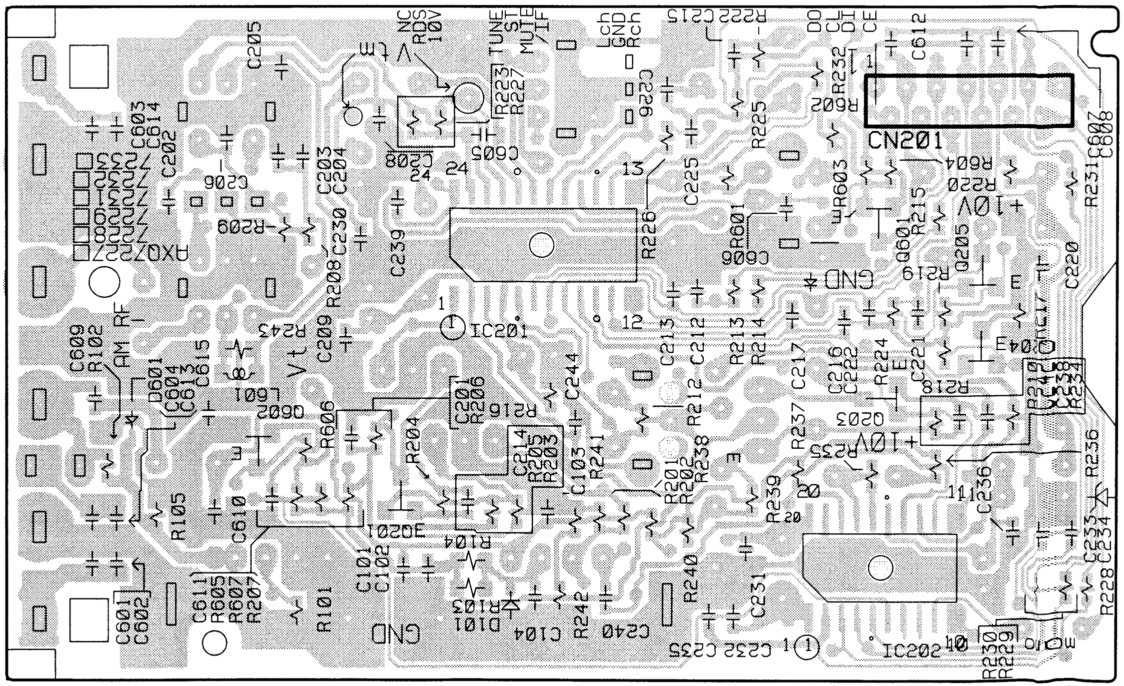
CN201 (ANP7338-B)

Q202

K CN601

SIDE B **A FM/AM TUNER MODULE** **SIDE B**

CN201


NC
RDS
10V
TUNE
ST
MUTE
/IF
Lch
GND
Rch
C215
R222
DO
CL
DI
CE
C612
C205
R223
R227
C226
R225
R232
R602
C607
C608
CN201
C603
C614
C202
C208
C605
24
13
C225
R604
R220
C206
R209
C203
C204
C230
C239
R226
R601
C606
WR603
Q601
R215
+10V
Q205
R231
AX0727
C209
R208
R219
C220
AM RF
C609
R102
R243
Vt
IC201
C213
C212
R213
R214
C217
C216
C222
R224
C221
C217
E
D601
C604
C613
C615
L601
Q602
R606
C201
R206
R216
C244
R212
R237
Q203
R218
R219
R234
R235
R236
R204
C214
R205
R203
C103
R241
R201
R202
R238
+10V
R235
C236
R105
C610
Q201
R104
R239
C233
C234
R228
C611
R605
R607
R207
R101
C101
C102
R103
D101
R242
R240
C231
C601
C602
GND
C104
C240
C232
C235
IC202
R230
R229

(ANP7338-B)

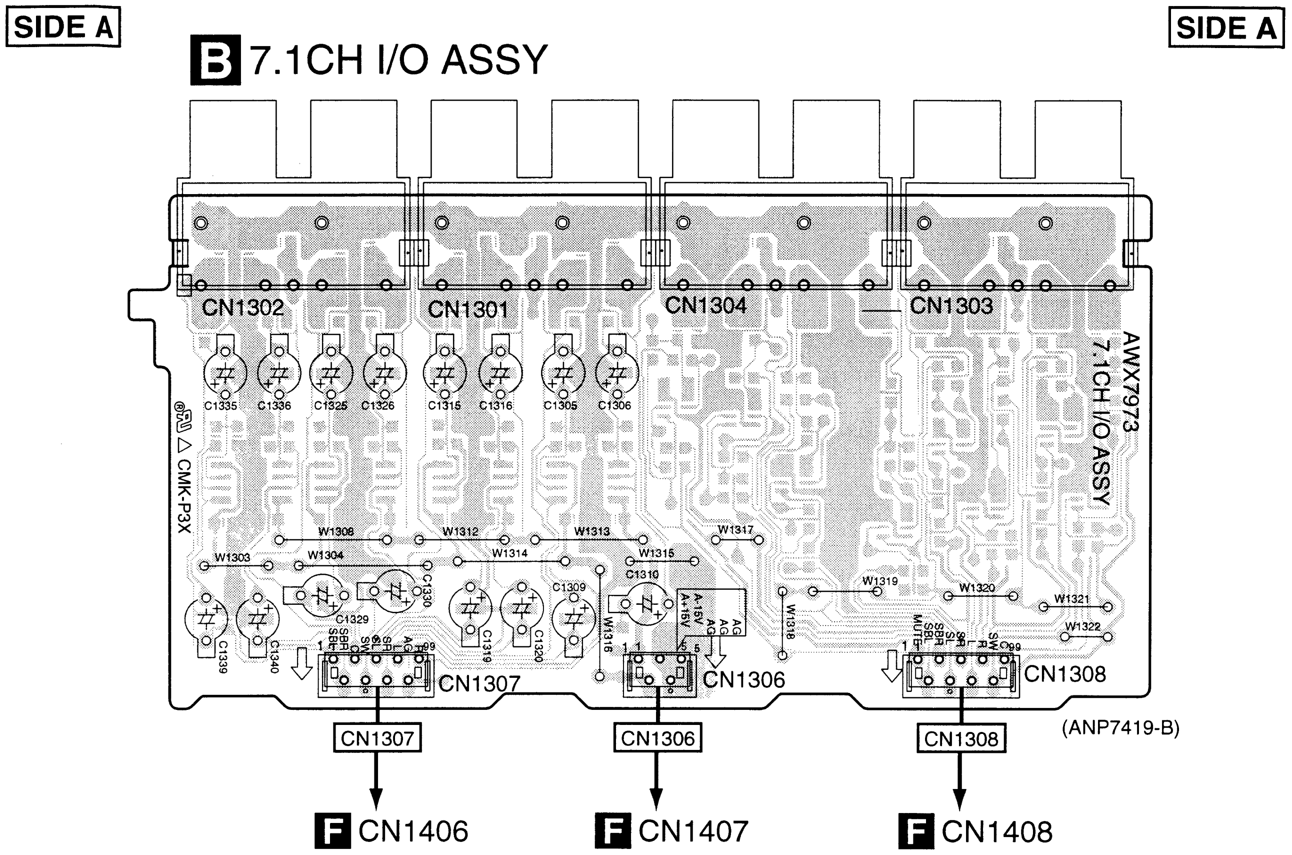
Q203
Q601
IC202

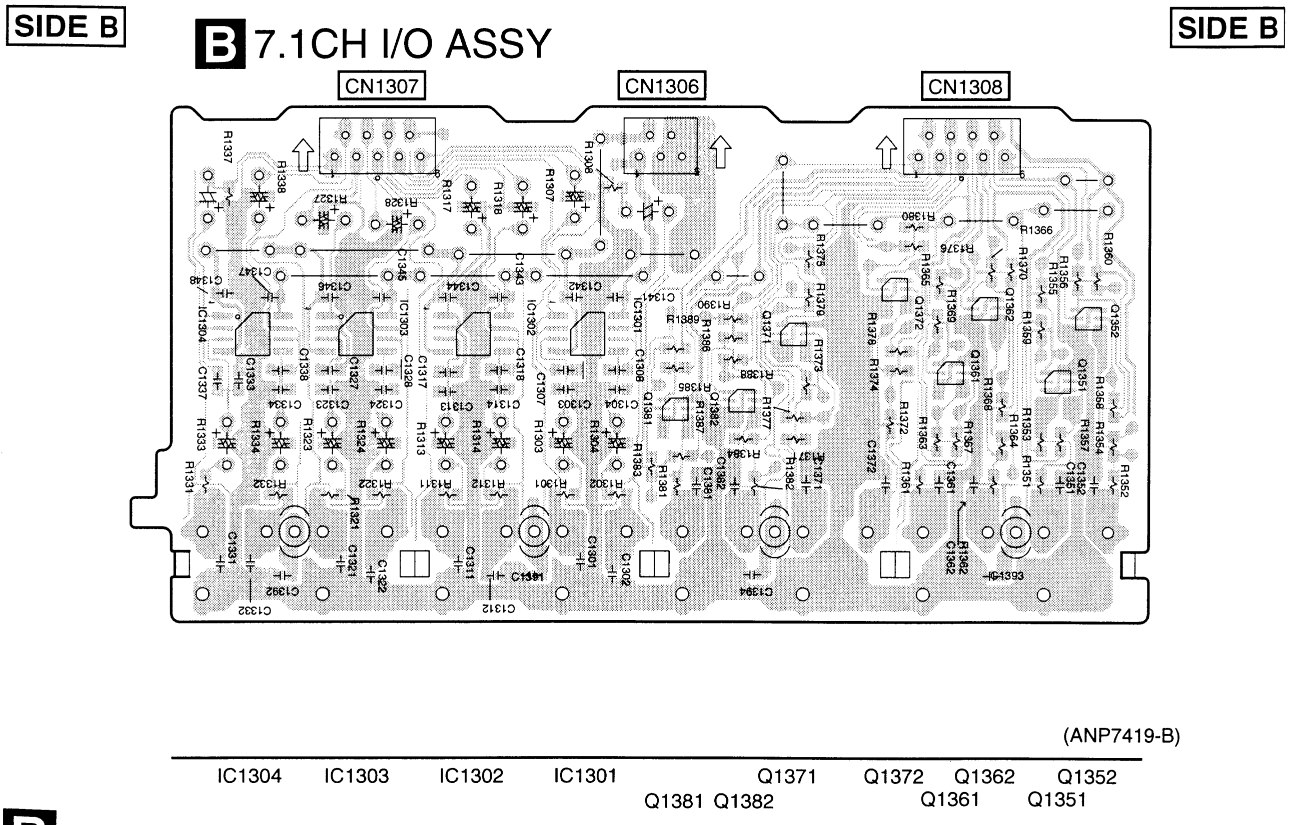
Q602

IC201

Q204
Q205

4.2 7.1CH I/O ASSY

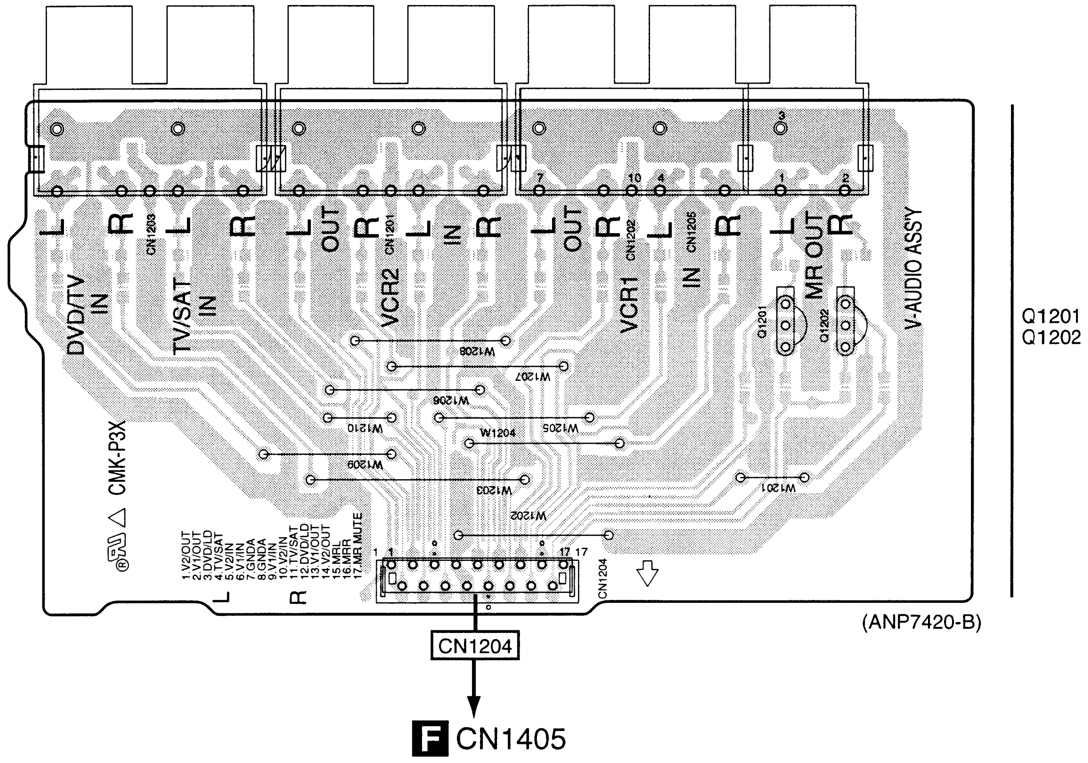

SIDE A
SIDE A
B 7.1CH I/O ASSY
CN1302
CN1301
CN1304
CN1303
AWX7973
7.1CH I/O ASSY
CMK-P3X
C1335
C1336
C1325
C1326
C1315
C1316
C1305
C1306
W1303
W1304
W1308
W1312
W1313
W1314
W1315
W1317
W1316
W1318
W1319
W1320
W1321
W1322
C1310
C1329
C1330
C1309
C1319
C1320
C1339
C1340
A+15V
A-15V
AG
SBR
SBL
SW
SL
SR
AG
MUTE
SBL
SBR
SL
SR
L
R
C
SW
CN1307
CN1306
CN1308
(ANP7419-B)
CN1307
CN1306
CN1308
F CN1406
F CN1407
F CN1408


SIDE B
SIDE B
B 7.1CH I/O ASSY
CN1307
CN1306
CN1308
R1337
R1338
R1327
R1328
R1317
R1318
R1307
R1308
R1380
R1366
R1360
R1375
R1376
R1370
R1356
R1355
C1348
C1347
C1346
C1345
C1344
C1343
C1342
C1341
IC1304
IC1303
IC1302
IC1301
R1390
R1389
R1386
Q1371
R1379
R1365
Q1372
R1359
Q1362
R1369
Q1352
C1337
C1333
C1338
C1327
C1328
C1317
C1318
C1307
C1308
R1385
R1388
R1373
R1378
R1374
Q1361
R1368
Q1351
C1334
C1323
C1324
C1313
C1314
C1303
C1304
Q1381
R1387
Q1382
R1377
R1372
R1363
R1367
R1364
R1353
R1358
R1357
R1354
R1333
R1334
R1323
R1324
R1313
R1314
R1303
R1304
R1383
R1384
R1371
R1331
R1332
R1321
R1322
R1311
R1312
R1301
R1302
R1381
C1381
C1382
R1382
C1372
R1361
C1371
C1362
R1362
C1361
R1351
C1351
C1352
R1352
C1331
C1321
C1322
C1311
C1391
C1301
C1302
C1394
C1393
C1392
C1332
C1312
(ANP7419-B)
IC1304
IC1303
IC1302
IC1301
Q1371
Q1372
Q1362
Q1352
Q1381
Q1382
Q1361
Q1351

4.3 V-AUDIO IN ASSY

SIDE A **SIDE A**

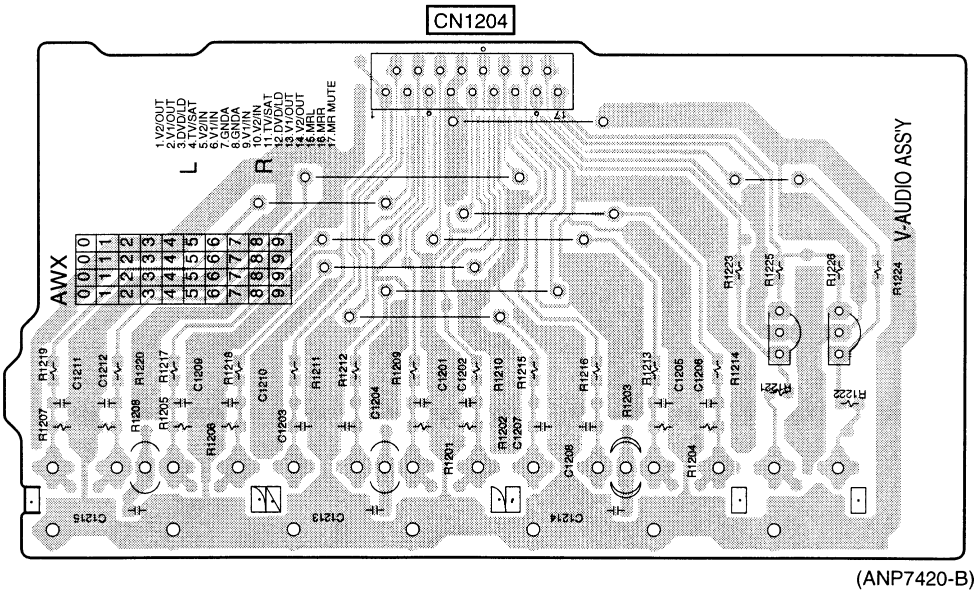
C V-AUDIO IN ASSY



DVD/TV IN
L
R
CN1203
TV/SAT IN
L
R
VCR2
OUT
L
R
CN1201
IN
L
R
VCR1
OUT
L
R
CN1202
IN
CN1205
L
R
MR OUT
L
R
V-AUDIO ASS'Y
Q1201
Q1202
W1201
W1202
W1203
W1204
W1205
W1206
W1207
W1208
W1209
W1210
CMK-P3X
1.V2/OUT
2.V1/OUT
3.DVD/LD
4.TV/SAT
5.V2/IN
6.V1/IN
7.GNDA
8.GNDA
9.V1/IN
10.V2/IN
11.TV/SAT
12.DVD/LD
13.V1/OUT
14.V2/OUT
15.MRL
16.MRR
17.MR MUTE
L
R
1
17
CN1204
(ANP7420-B)
CN1204
F CN1405
Q1201
Q1202

SIDE B **SIDE B**

C V-AUDIO IN ASSY

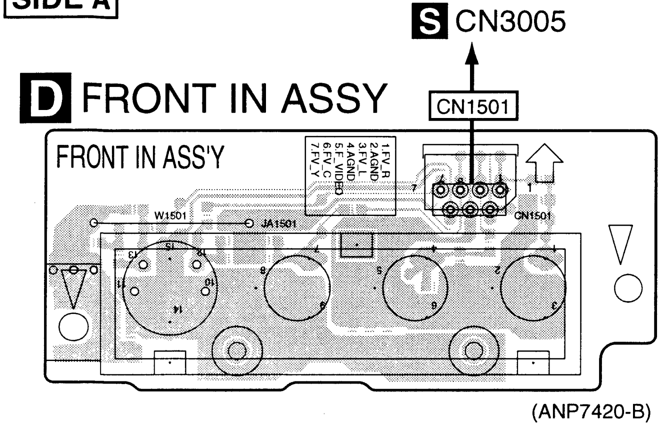


CN1204
1.V2/OUT
2.V1/OUT
3.DVD/LD
4.TV/SAT
5.V2/IN
6.V1/IN
7.GNDA
8.GNDA
9.V1/IN
10.V2/IN
11.TV/SAT
12.DVD/LD
13.V1/OUT
14.V2/OUT
15.MRL
16.MRR
17.MR MUTE
L
R
1
17
AWX
V-AUDIO ASS'Y
R1201
R1202
R1203
R1204
R1205
R1206
R1207
R1208
R1209
R1210
R1211
R1212
R1213
R1214
R1215
R1216
R1217
R1218
R1219
R1220
R1221
R1222
R1223
R1224
R1225
R1226
C1201
C1202
C1203
C1204
C1205
C1206
C1207
C1208
C1209
C1210
C1211
C1212
C1213
C1214
C1215
(ANP7420-B)

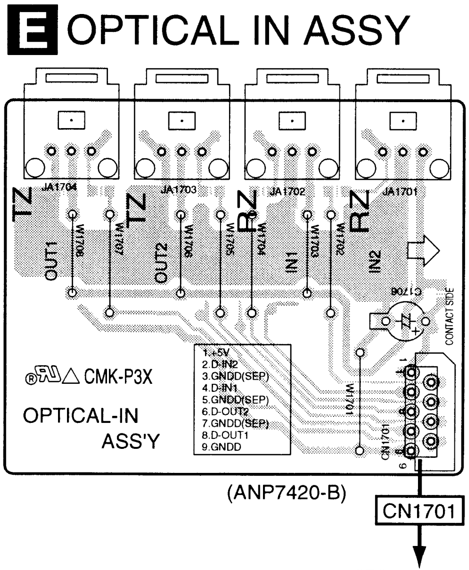
4.4 FRONT IN, OPTICAL IN and INPUT CONNECT ASSYS

SIDE A

D FRONT IN ASSY

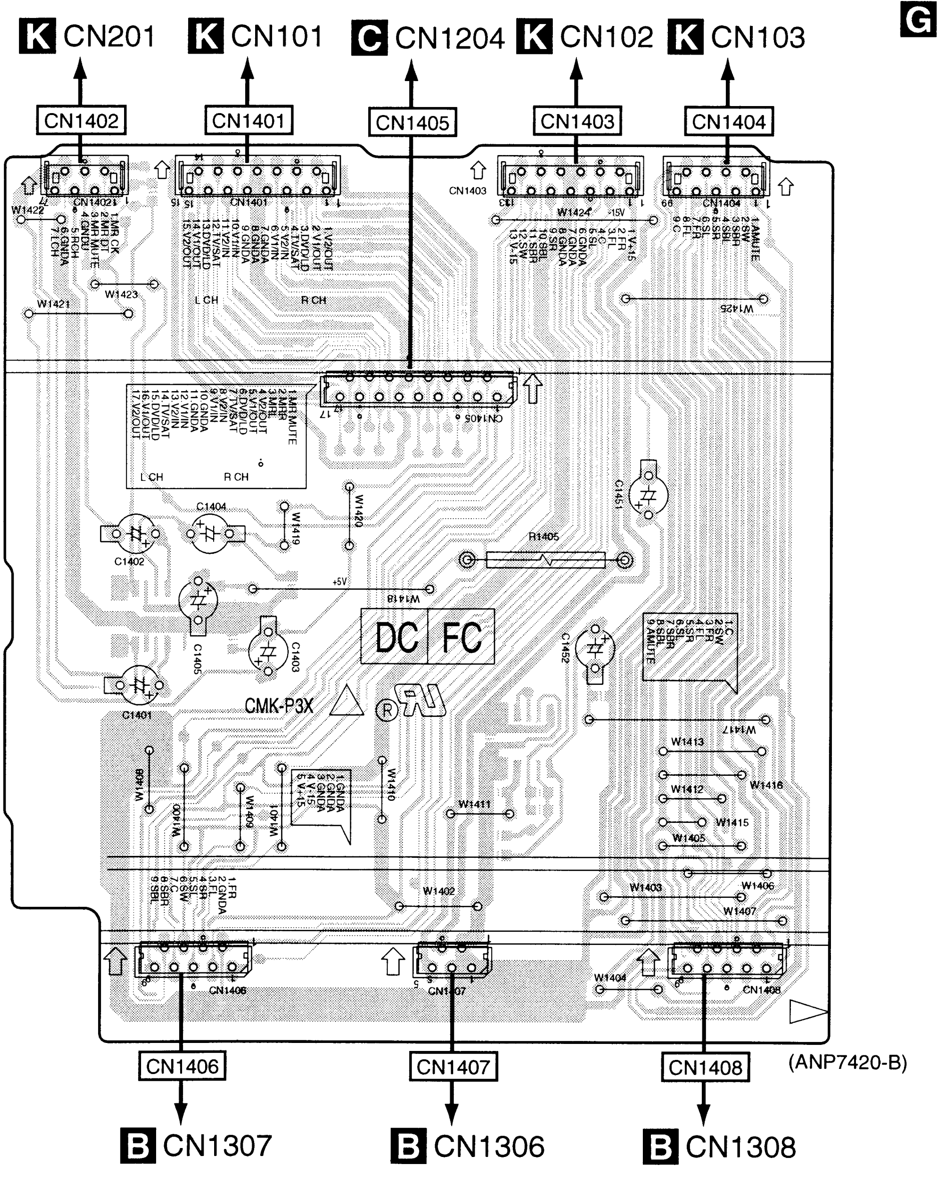

S CN3005
CN1501
FRONT IN ASS'Y
1.FV_R
2.AGND
3.FV_L
4.AGND
5.F_VIDEO
6.FV_C
7.FV_Y
W1501
JA1501
CN1501
(ANP7420-B)

E OPTICAL IN ASSY


JA1704
JA1703
JA1702
JA1701
TZ
OUT1
OUT2
RZ
IN1
IN2
W1708
W1707
W1706
W1705
W1704
W1703
W1702
W1701
C1706
CONTACT SIDE
CMK-P3X
OPTICAL-IN ASS'Y
1.+5V
2.D-IN2
3.GNDD(SEP)
4.D-IN1
5.GNDD(SEP)
6.D-OUT2
7.GNDD(SEP)
8.D-OUT1
9.GNDD
CN1701
(ANP7420-B)
CN1701

G CN1801

F INPUT CONNECT ASSY


K CN201
K CN101
C CN1204
K CN102
K CN103
CN1402
CN1401
CN1405
CN1403
CN1404
W1422
W1421
W1423
W1424
W1425
L CH
R CH
C1402
C1404
C1405
C1403
C1401
C1451
C1452
R1405
W1418
W1419
W1420
+5V
DC FC
CMK-P3X
W1408
W1409
W1410
W1411
W1412
W1413
W1415
W1416
W1417
W1402
W1403
W1404
W1405
W1406
W1407
CN1406
CN1407
CN1408
(ANP7420-B)

B CN1307 **B** CN1306 **B** CN1308

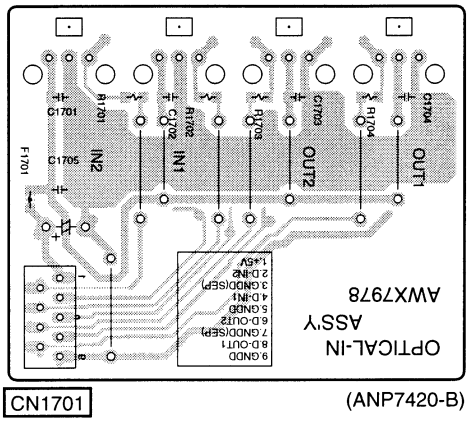
D E F

SIDE B

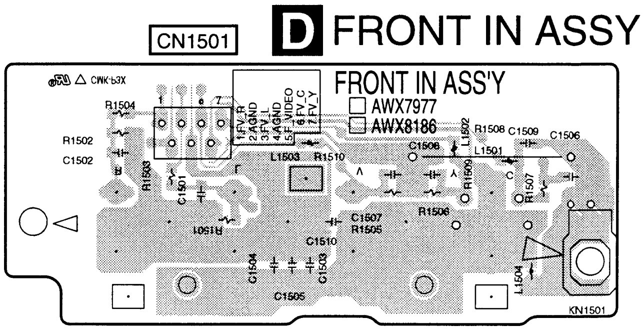
A

E OPTICAL IN ASSY

D FRONT IN ASSY


C1701
R1701
C1702
R1702
R1703
C1703
R1704
C1704
F1701
C1705
IN2
IN1
OUT2
OUT1
OPTICAL-IN
ASS'Y
AWX7978
1.+5V
2.D-IN2
3.GNDD(SEP)
4.D-IN1
5.GNDD
6.D-OUT2
7.GNDD(SEP)
8.D-OUT1
9.GNDD
CN1701

(ANP7420-B)

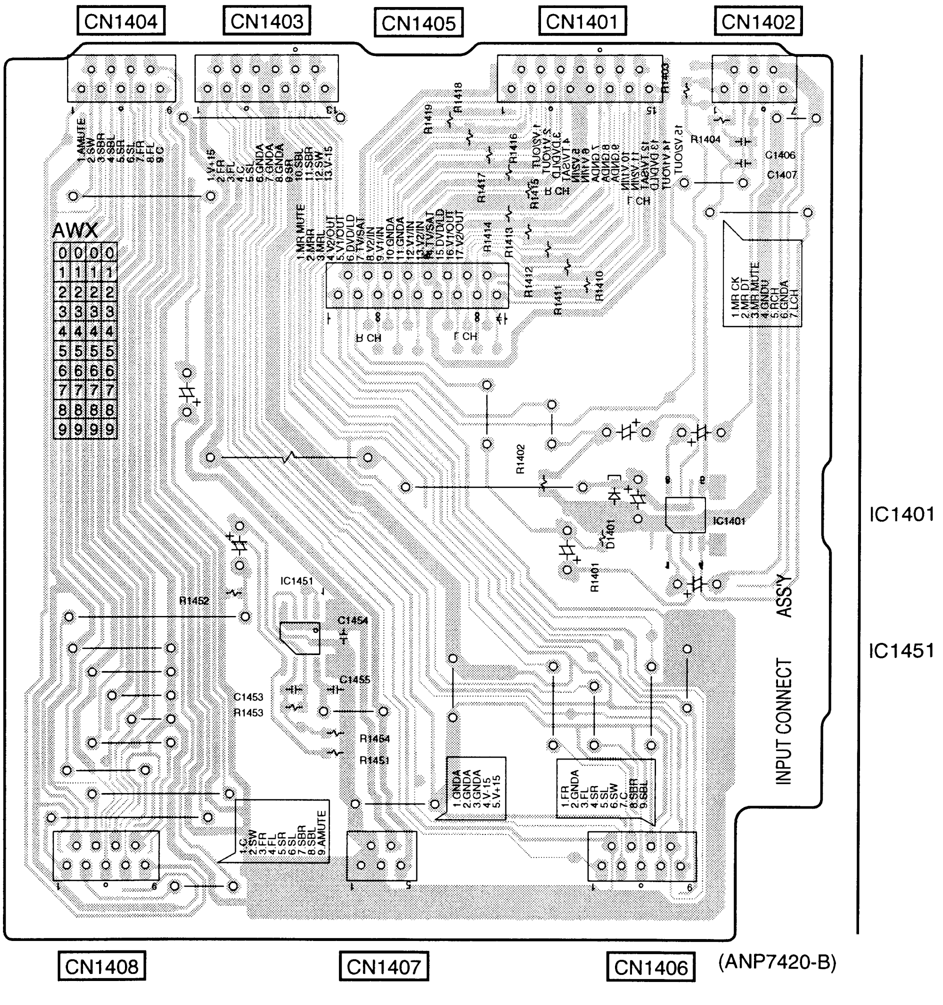

CN1501
FRONT IN ASS'Y
☐ AWX7977
☐ AWX8186
1.FV_R
2.AGND
3.FV_L
4.AGND
5.F.VIDEO
6.FV_C
7.FV_Y
R1504
R1502
C1502
R1503
C1501
R1501
L1503
R1510
R1508
C1509
C1506
L1502
L1501
C1508
R1509
R1507
C1507
R1505
R1506
C1510
C1504
C1503
C1505
L1504
KN1501

(ANP7420-B)

B

F INPUT CONNECT ASSY

C


CN1404
CN1403
CN1405
CN1401
CN1402
1.AMUTE
2.SW
3.SBR
4.SBL
5.SR
6.SL
7.FR
8.FL
9.C
1.V+15
2.FR
3.FL
4.C
5.SL
6.GNDA
7.GNDA
8.GNDA
9.SR
10.SBL
11.SBR
12.SW
13.V-15
1.MR MUTE
2.MRH
3.MRL
4.V2/OUT
5.V1/OUT
6.DVD/LD
7.TV/SAT
8.V2/IN
9.V1/IN
10.GNDA
11.GNDA
12.V1/IN
13.V2/IN
14.TV/SAT
15.DVD/LD
16.V1/OUT
17.V2/OUT
R CH
L CH
1.MR CK
2.MR DT
3.MR MUTE
4.GNDU
5.RCH
6.GNDA
7.LCH
AWX
R1419
R1418
R1416
R1417
R1415
R1414
R1413
R1412
R1411
R1410
R1403
R1404
C1406
C1407
R1402
IC1401
D1401
R1401
IC1451
R1452
C1454
C1455
C1453
R1453
R1454
R1451
1.GNDA
2.GNDA
3.GNDA
4.V-15
5.V+15
1.FR
2.GNDA
3.FL
4.SR
5.SL
6.SW
7.C
8.SBR
9.SBL
1.C
2.SW
3.FR
4.FL
5.SR
6.SL
7.SBR
8.SBL
9.AMUTE
INPUT CONNECT ASSY
IC1401
IC1451
CN1408
CN1407
CN1406

(ANP7420-B)

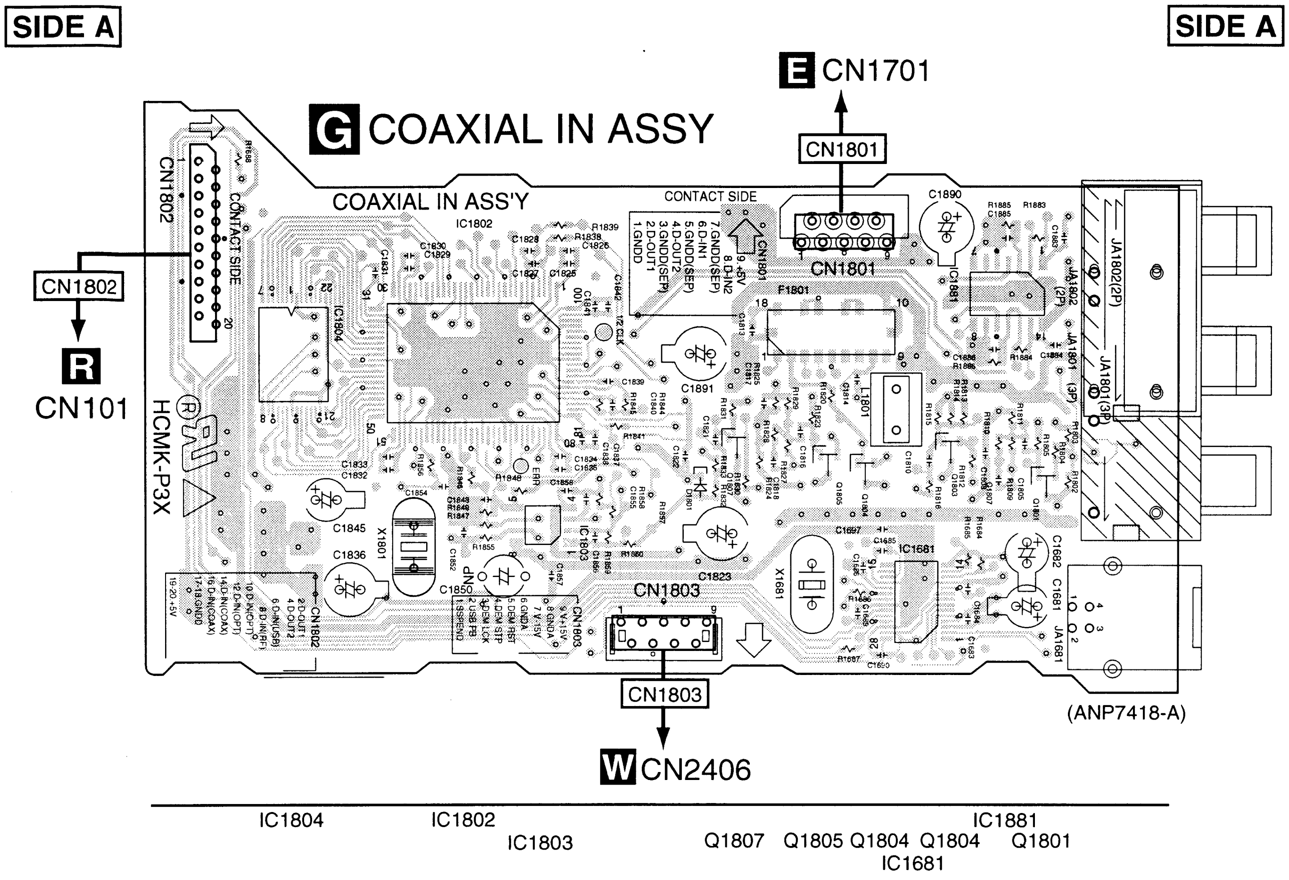
D

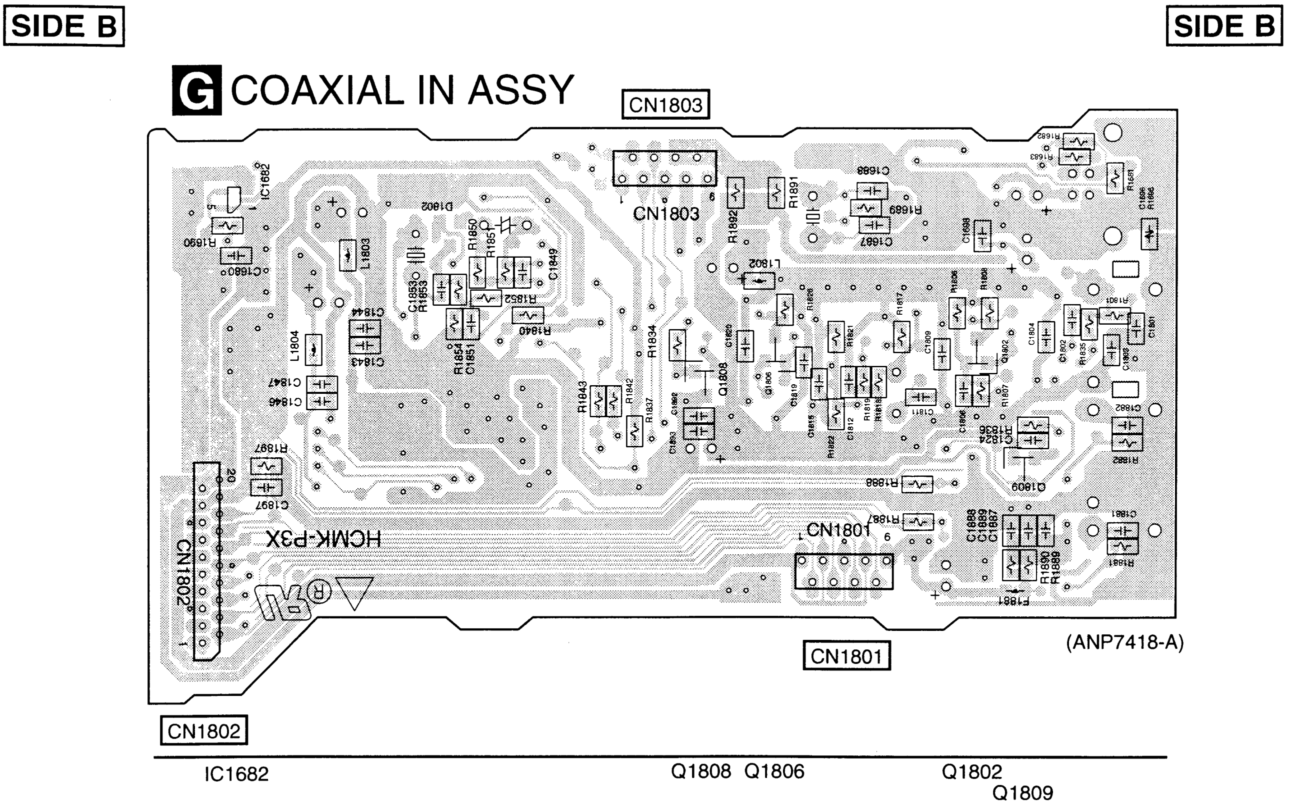
E

F

D E F

4.5 COAXIAL IN ASSY

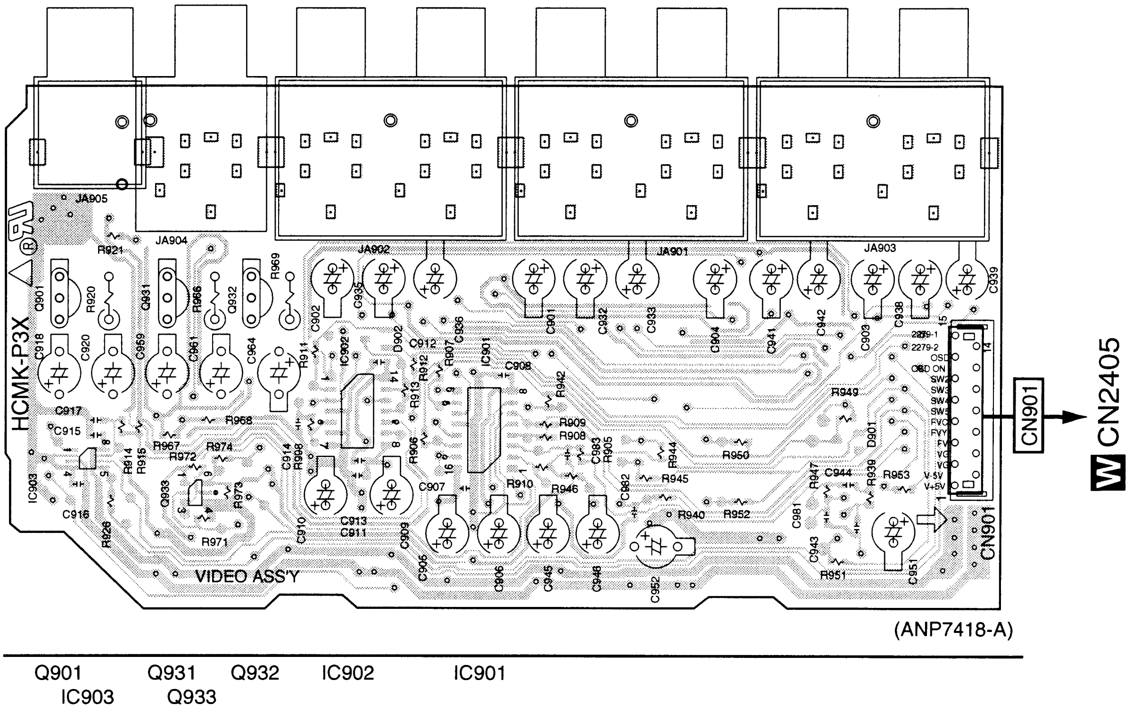

SIDE A
SIDE A
G COAXIAL IN ASSY
E CN1701
CN1801
COAXIAL IN ASS'Y
CONTACT SIDE
CN1802
CONTACT SIDE
CN1802
R CN101
IC1802
IC1804
IC1803
IC1681
IC1881
HCMK-P3X
CN1801
F1801
L1801
X1801
X1681
C1845
C1836
C1891
C1890
C1823
C1850
C1682
C1681
JA1802(2P)
JA1801(3P)
JA1681
CN1803
9 +5V
8 D-IN2
7 GNDD(SEP)
6 D-IN1
5 GNDD(SEP)
4 D-OUT2
3 GNDD(SEP)
2 D-OUT1
1 GNDD
CN1803
9 V(+15V)
8 GNDA
7 V(-15V)
6 GNDA
5 DEM RST
4 DEM STP
3 DEM LCK
2 USB PB
1 SPEND
CN1802
2 D-OUT1
4 D-OUT2
6 D-IN(USB)
8 D-IN(RF)
10 D-IN(OPT)
12 D-IN(OPT)
14 D-IN(COAX)
16 D-IN(COAX)
17-18 GNDD
19-20 +5V
CN1803
W CN2406
(ANP7418-A)
IC1804
IC1802
IC1803
Q1807
Q1805
Q1804
Q1804
IC1681
IC1881
Q1801


SIDE B
SIDE B
G COAXIAL IN ASSY
CN1803
CN1803
CN1801
CN1801
CN1802
CN1802
HCMK-P3X
IC1682
L1803
L1804
L1802
D1802
Q1808
Q1806
Q1802
Q1809
(ANP7418-A)
IC1682
Q1808
Q1806
Q1802
Q1809

4.6 VIDEO ASSY

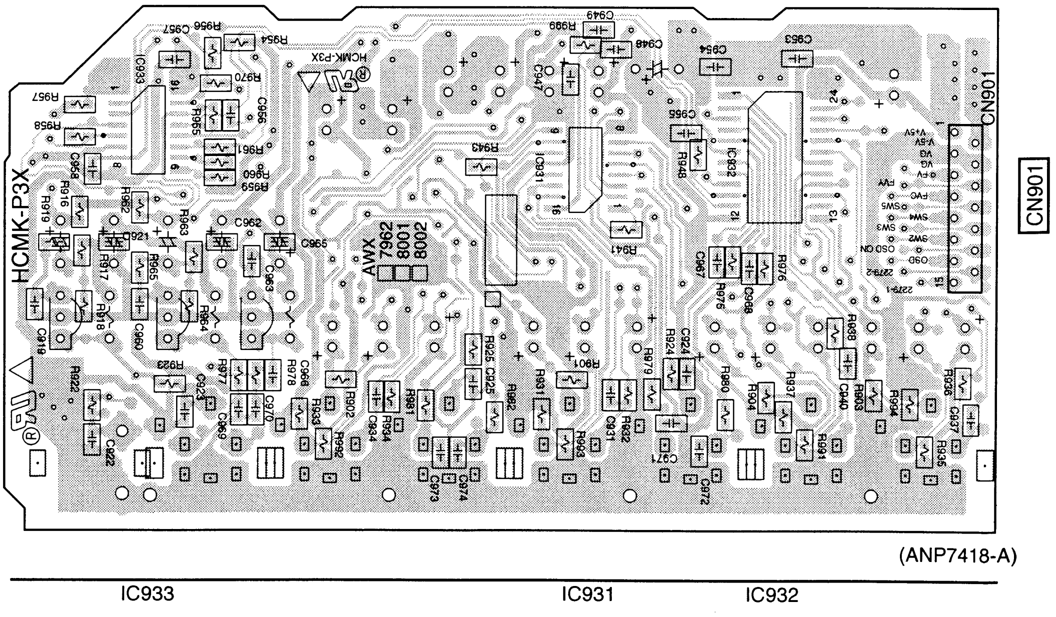
SIDE A **SIDE A**

H VIDEO ASSY


JA905
JA904
JA902
JA901
JA903
HCMK-P3X
VIDEO ASS'Y
CN901
W CN2405
IC901
IC902
IC903
Q901
Q931
Q932
Q933
OSD
OSD ON
SW2
SW3
SW4
SW5
FVC
FVY
FV
VG
VG
V-5V
V+5V
(ANP7418-A)
Q901 Q931 Q932 IC902 IC901
IC903 Q933

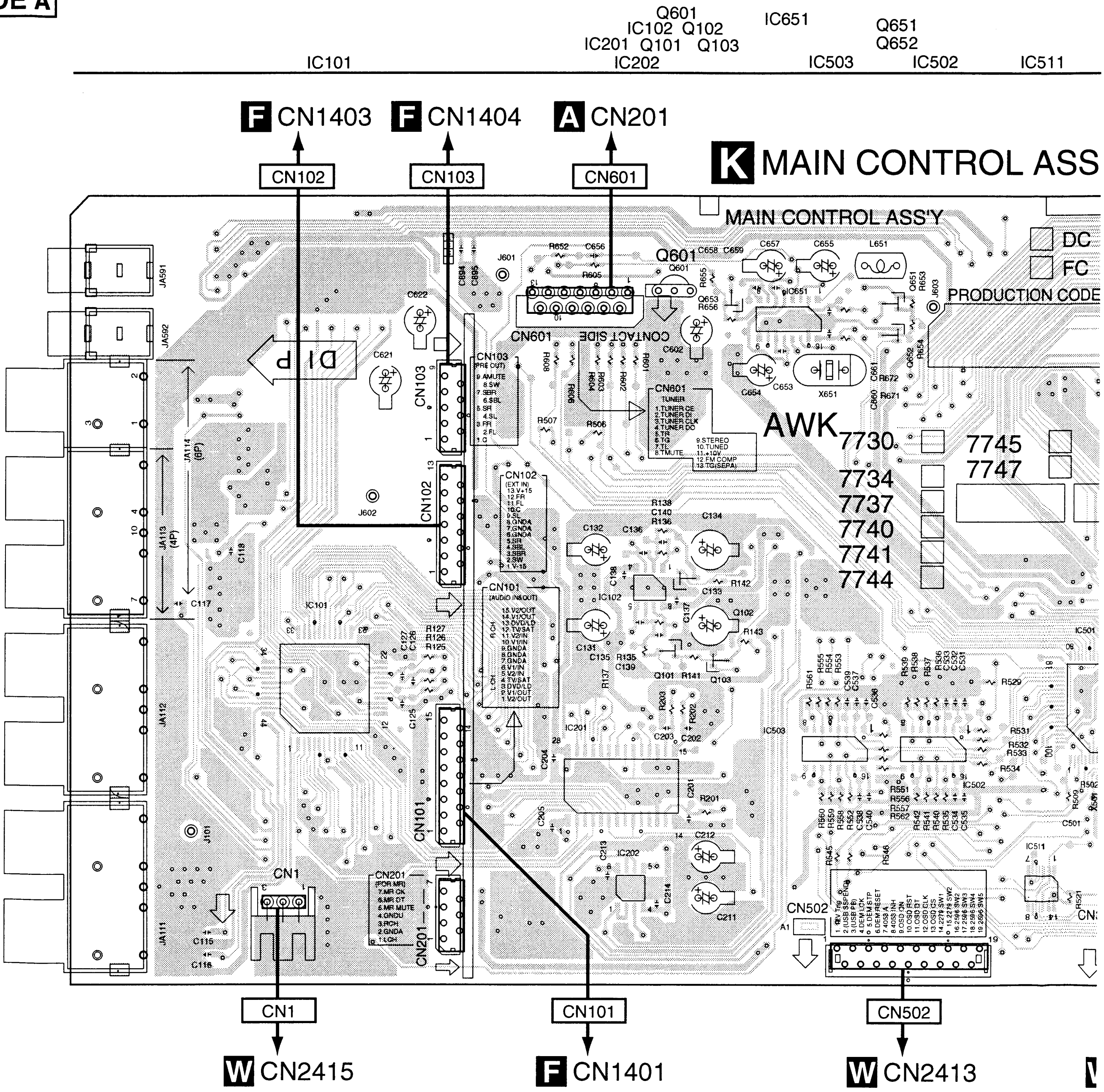
SIDE B **SIDE B**

H VIDEO ASSY


HCMK-P3X
CN901
IC931
IC932
IC933
AWX 7962 8001 8002
(ANP7418-A)
IC933 IC931 IC932

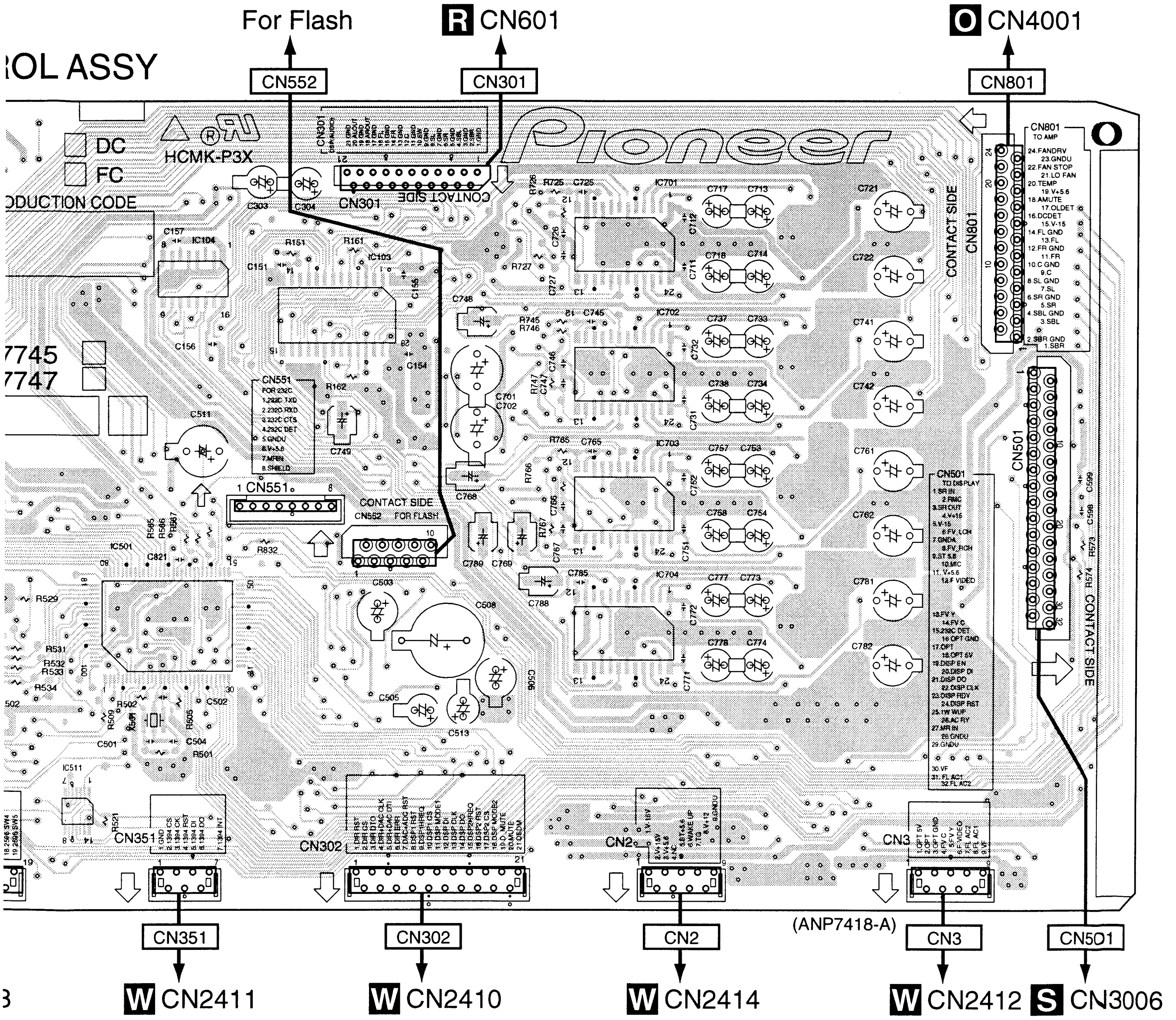
4.7 MAIN CONTROL ASSY

SIDE A


Q601
IC102 Q102
IC201 Q101 Q103
IC651
Q651
Q652
IC101
IC202
IC503
IC502
IC511
F CN1403
F CN1404
A CN201
CN102
CN103
CN601
K MAIN CONTROL ASS
MAIN CONTROL ASS'Y
DC
FC
PRODUCTION CODE
CONTACT SIDE
DIP
AWK 7730
7734
7737
7740
7741
7744
7745
7747
CN103 (PRE OUT) 9.AMUTE 8.SW 7.SBR 6.SBL 5.SR 4.SL 3.FR 2.FL 1.C
CN102 (EXT IN) 13.V+15 12.FR 11.FL 10.C 9.SL 8.GNDA 7.GNDA 6.GNDA 5.SR 4.SBL 3.SBR 2.SW 1.V-15
CN101 (AUDIO IN&OUT) 15.V2/OUT 14.V1/OUT 13.DVD/LD 12.TV/SAT 11.V2/IN 10.V1/IN 9.GNDA 8.GNDA 7.GNDA 6.V1/IN 5.V2/IN 4.TV/SAT 3.DVD/LD 2.V1/OUT 1.V2/OUT
CN601 TUNER 1.TUNER CE 2.TUNER DI 3.TUNER CLK 4.TUNER DO 5.TR 6.TG 7.TL 8.TMUTE 9.STEREO 10.TUNED 11.+10V 12.FM COMP 13.TG(SEPA)
CN201 (FOR MR) 7.MR CK 6.MR DT 5.MR MUTE 4.GNDU 3.RCH 2.GNDA 1.LCH
JA591
JA592
JA114 (6P)
JA113 (4P)
JA112
JA111
J101
J601
J602
J603
CN1
CN502
CN101
CN201
CN1
CN101
CN502
W CN2415
F CN1401
W CN2413

SIDE A

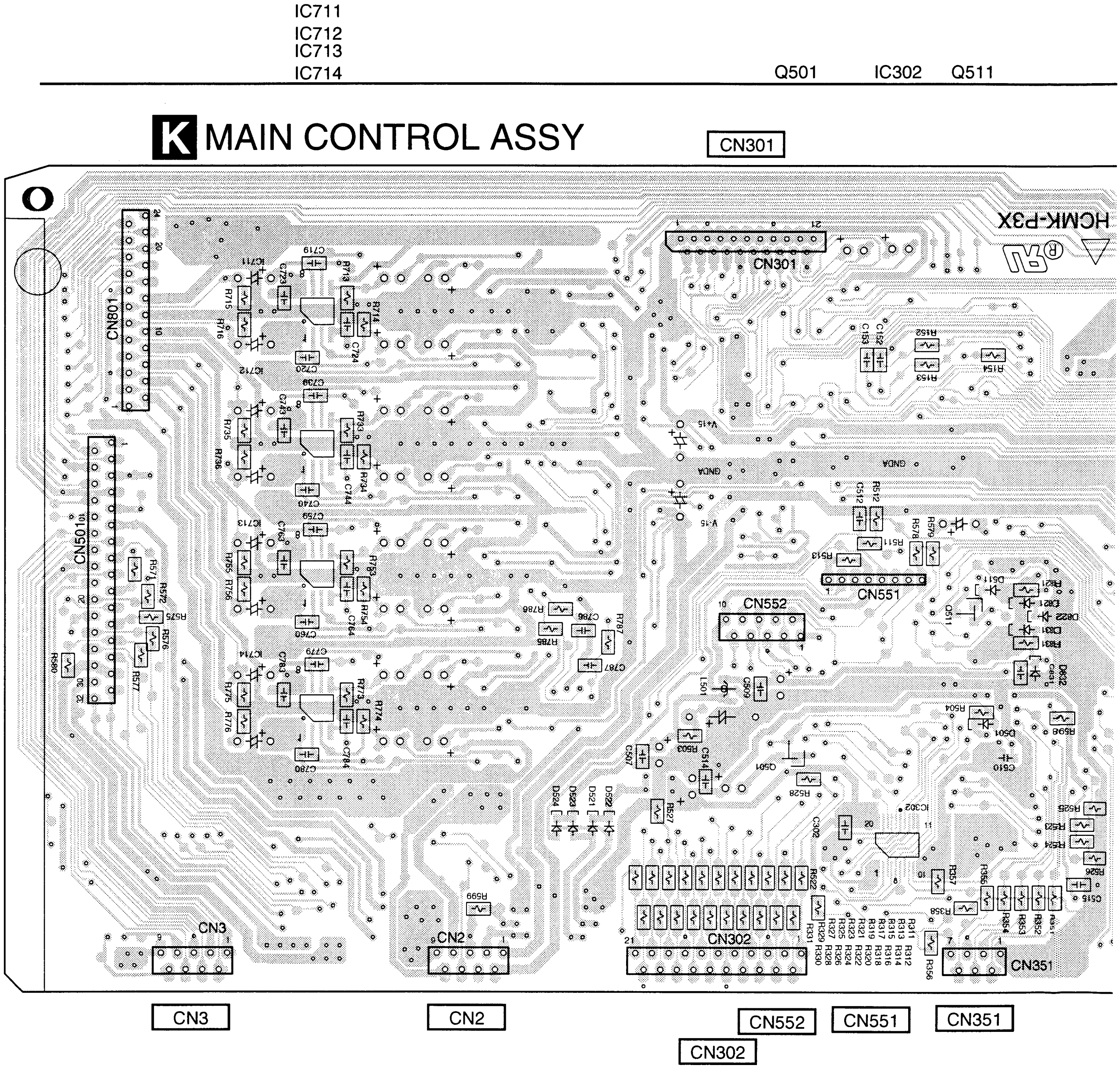
IC104
IC511 IC501 IC103 IC702 IC701
IC704 IC703


For Flash
CN552
R CN601
CN301
O CN4001
CN801
ROL ASSY
DC
FC
HCMK-P3X
ODUCTION CODE
7745
7747
CN301
CONTACT SIDE
CN551
FOR 232C
1.232C TXD
2.232C RXD
3.232C CTS
4.232C DET
5.GNDU
6.V+5.6
7.MRIN
8.SHIELD
1 CN551 8
CONTACT SIDE
CN552 FOR FLASH
IC701
IC702
IC703
IC704
C717 C713 C718 C714 C721 C722
C737 C733 C738 C734 C741 C742
C757 C753 C758 C754 C761 C762
C777 C773 C778 C774 C781 C782
C303 C304 C157 IC104 R151 R161 IC103 C151 C155 C156 C154 R162 C749 C511
C748 R745 R746 C745 C746 C701 C702 C768 R765 C765 R766 C789 C769 C767 C785 C788
R726 R725 C725 C726 R727 C727
C503 C508 C505 C513 C506
R565 R566 R567 IC501 C821 R832 R529 R531 R532 R533 R534 R502 R509 R504 R505 C502 C501 C504 R501 IC511 R521
CN801
TO AMP
24.FANDRV
23.GNDU
22.FAN STOP
21.LO FAN
20.TEMP
19.V+5.6
18.AMUTE
17.OLDET
16.DCDET
15.V-15
14.FL GND
13.FL
12.FR GND
11.FR
10.C GND
9.C
8.SL GND
7.SL
6.SR GND
5.SR
4.SBL GND
3.SBL
2.SBR GND
1.SBR
CONTACT SIDE
CN501
TO DISPLAY
1.SR IN
2.RMC
3.SR OUT
4.V+15
5.V-15
6.FV_LCH
7.GNDA
8.FV_RCH
9.ST 5.6
10.MIC
11. V+5.6
12.F VIDEO
13.FV Y
14.FV C
15.232C DET
16.OPT GND
17.OPT
18.OPT 5V
19.DISP EN
20.DISP DI
21.DISP DO
22.DISP CLK
23.DISP RDY
24.DISP RST
25.1W WUP
26.AC RY
27.MR IN
28.GNDU
29.GNDU
30.VF
31. FL AC1
32.FL AC2
C599 C598 R573 R574
CONTACT SIDE
CN351
1.GND
2.1394 CS
3.1394 CK
4.1394 RST
5.1394 DI
6.1394 DO
7.1394 INT
CN302
1.DIR RST
2.DIR CS
3.DIR DTO
4.DIR+DAC CLK
5.DIR+DAC DTI
6.DIR ERR
7.DAC+ADC RST
8.DSP1 RST
9.DSP1HREQ
10.DSP1 CS
11.DSP MODE1
12.DSP DI
13.DSP CLK
14.DSP DO
15.DSP2HREQ
16.DSP2 RST
17.DSP2 CS
18.DSP MODE2
19.D. MUTE
20.MUTE
21.DSDM
CN2
1.V-15V
2.V+15V
3.V+5.6
4.NC
5.ST+5.6
6.WAKE UP
7.TG
8.V+12
9.GNDU
CN3
1.OPT 5V
2.OPT
3.OPT GND
4.FV C
5.FV Y
6.F.VIDEO
7.FL AC2
8.FL AC1
9.VF
18.2506 SW4
19.2506 SW5
(ANP7418-A)
CN351
W CN2411
CN302
W CN2410
CN2
W CN2414
CN3
W CN2412
CN501
S CN3006

K

SIDE B

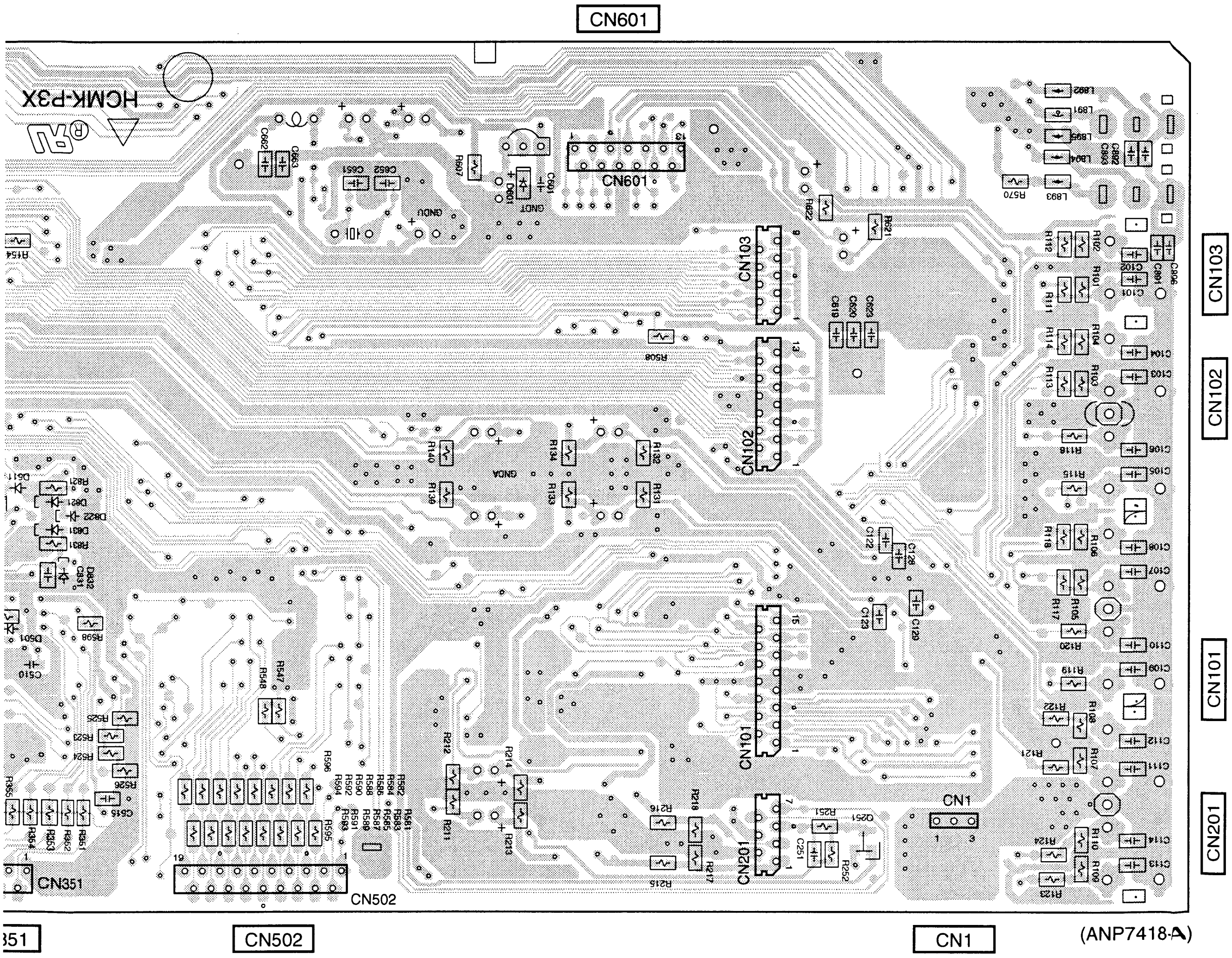
K MAIN CONTROL ASSY


IC711
IC712
IC713
IC714
Q501
IC302
Q511
CN301
HCMK-P3X
CN801
CN501
CN552
CN551
CN3
CN2
CN302
CN351
CN3
CN2
CN552
CN551
CN351
CN302

SIDE B

A

1 Q601 Q251


CN601
HCMK-P3X
CN601
CN103
CN102
CN101
CN201
CN1
CN502
CN351
CN103
CN102
CN101
CN201
351
CN502
CN1

(ANP7418-A)

B

C

D

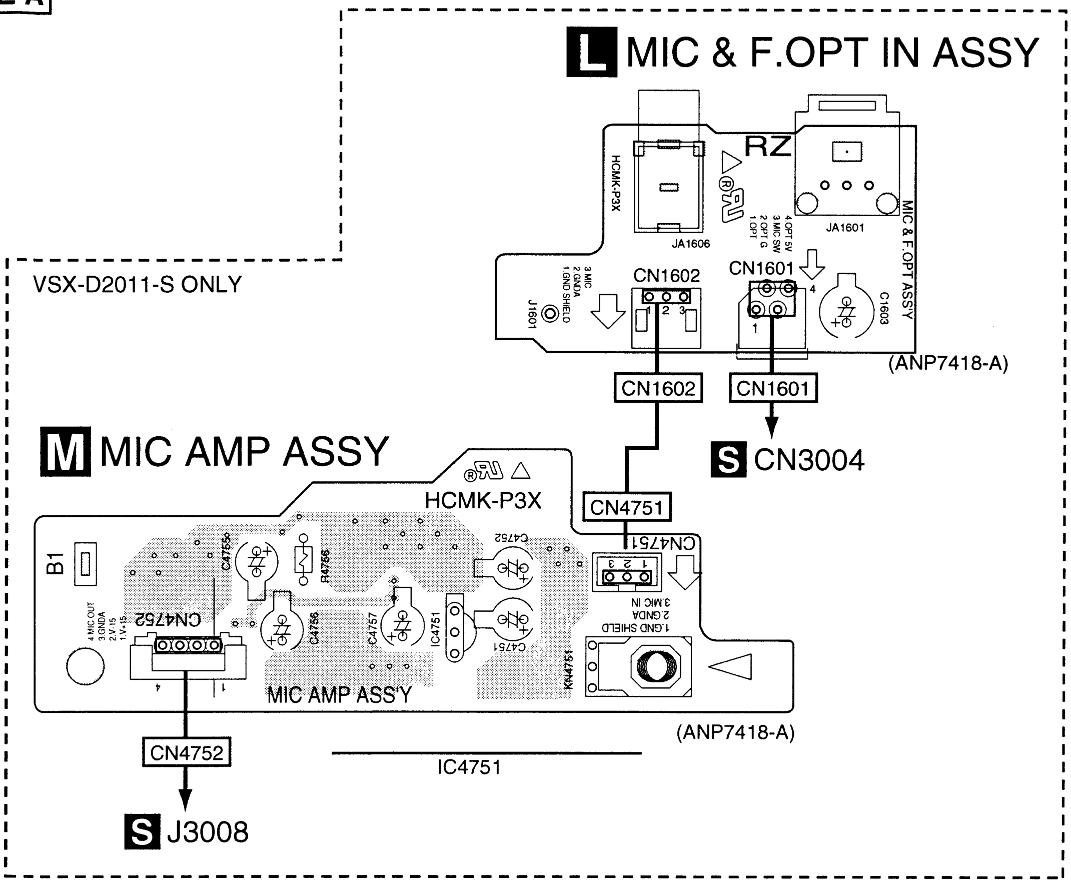
E

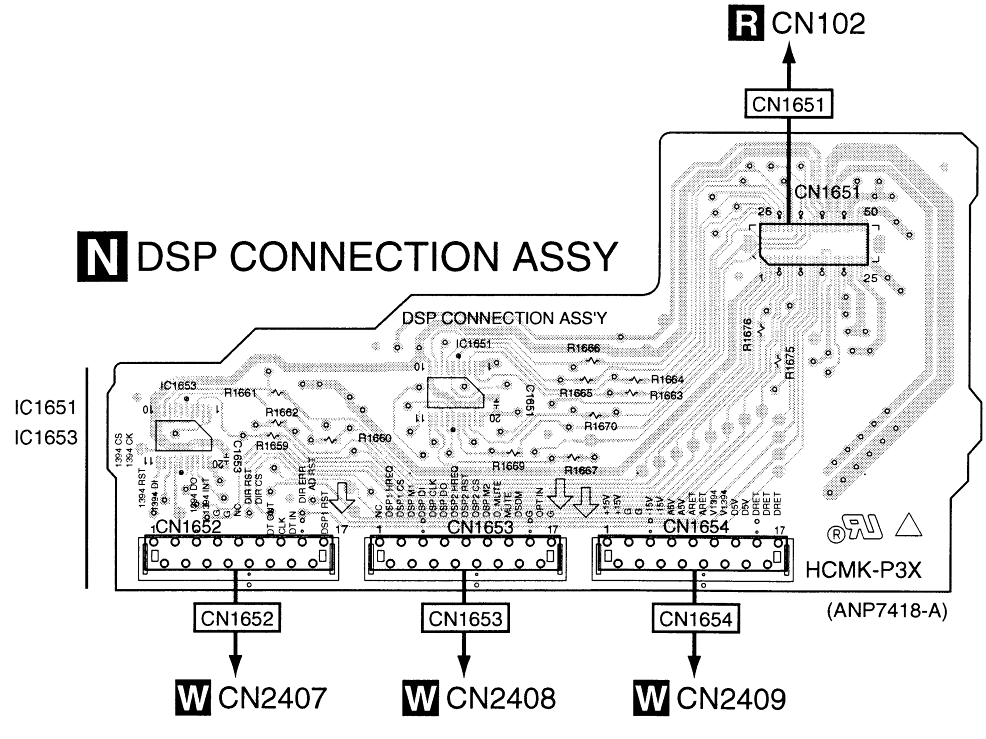
F

K

4.8 MIC & F. OPT IN, MIC AMP and DSP CONNECTION ASSYS

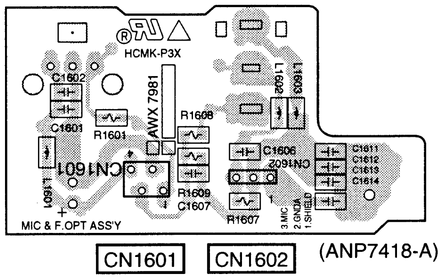
SIDE A


VSX-D2011-S ONLY
L MIC & F.OPT IN ASSY
RZ
HCMK-P3X
JA1606
JA1601
MIC & F.OPT ASSY
4 OPT 5V
3 MIC SW
2 OPT G
1 OPT
3 MIC
2 GNDA
1 GND SHIELD
J1601
CN1602
CN1601
C1603
(ANP7418-A)
CN1602
CN1601
S CN3004
M MIC AMP ASSY
HCMK-P3X
CN4751
B1
C4755
R4756
C4752
C4756
C4757
IC4751
C4751
CN4752
4 MIC OUT
3 GNDA
2 V-15
1 V+15
3 MIC IN
2 GNDA
1 GND SHIELD
KN4751
MIC AMP ASS'Y
(ANP7418-A)
CN4752
IC4751
S J3008


R CN102
CN1651
N DSP CONNECTION ASSY
CN1651
26
50
1
25
DSP CONNECTION ASS'Y
IC1651
R1666
R1664
R1665
R1663
R1676
R1675
IC1653
R1661
R1662
R1660
R1659
C1653
C1651
R1670
R1669
R1667
IC1651
IC1653
CN1652
CN1653
CN1654
17
HCMK-P3X
(ANP7418-A)
CN1652
CN1653
CN1654
W CN2407
W CN2408
W CN2409

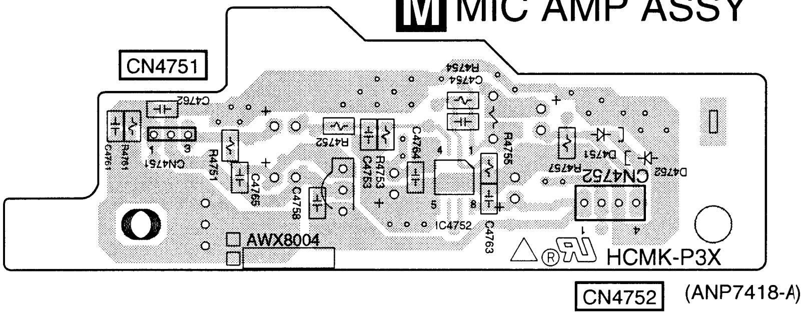
SIDE B

L MIC & F.OPT IN ASSY

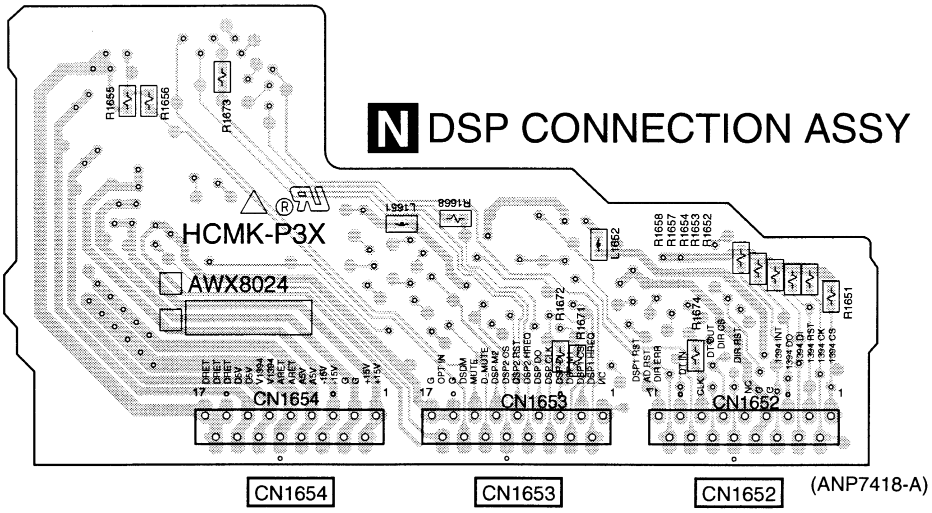

HCMK-P3X
C1602
C1601
R1601
AWX 7981
R1608
L1602
L1603
C1606
CN1602
C1611
C1612
C1613
C1614
CN1601
L1601
R1609
C1607
R1607
3.MIC
2.GNDA
1.SHIELD
MIC & F.OPT ASS'Y
CN1601
CN1602
(ANP7418-A)

VSX-D2011-S ONLY

M MIC AMP ASSY


CN4751
R4754
C4754
C4762
C4761
R4761
CN4761
R4751
C4765
C4758
R4752
R4753
C4753
C4764
IC4752
R4755
C4763
R4757
D4751
D4752
CN4752
AWX8004
HCMK-P3X
CN4752
(ANP7418-A)

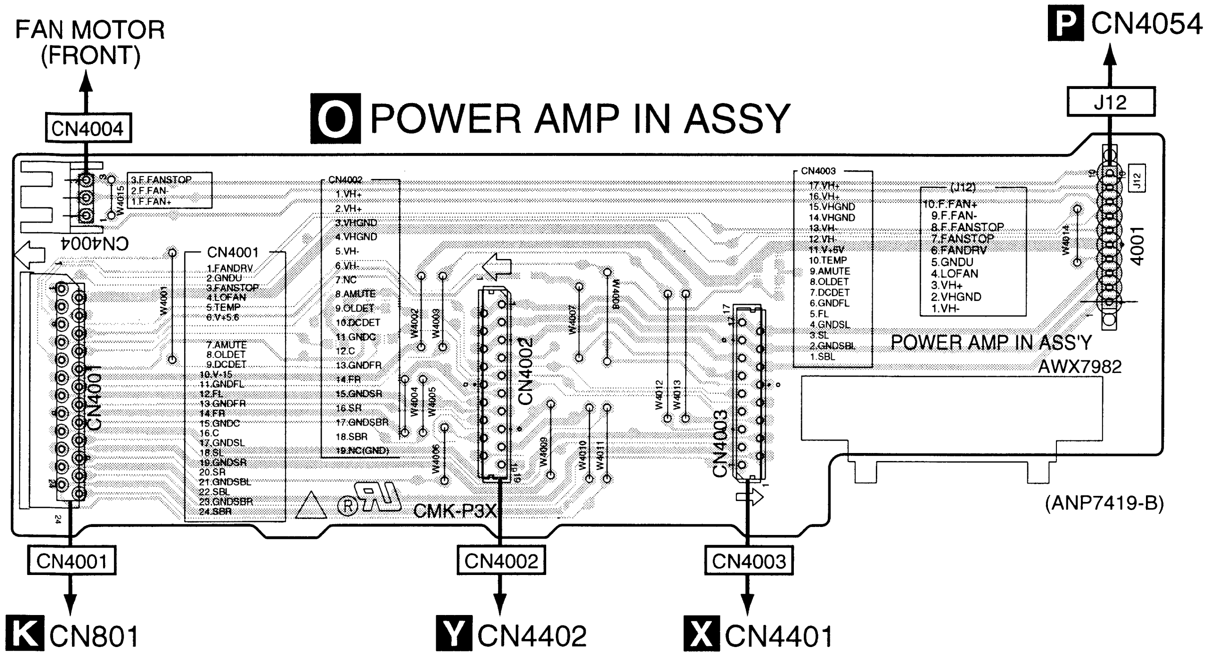
N DSP CONNECTION ASSY


R1655
R1656
R1673
HCMK-P3X
AWX8024
L1661
R1668
L1652
R1658
R1657
R1654
R1653
R1652
R1651
R1672
R1671
R1674
DRET
DRET
DRET
D5V
D5V
V1394
V1394
ARET
ARET
A5V
A5V
-15V
-15V
G
G
+15V
+15V
G
OPT IN
G
DSDM
MUTE
D_MUTE
DSP M2
DSP2 CS
DSP2 RST
DSP2 HREQ
DSP DO
DSP CLK
DSP1 RST
AD RST
DIR ERR
DT IN
CLK
DT OUT
DIR CS
DIR RST
NC
G
G
1394 INT
1394 DO
1394 DI
1394 RST
1394 CK
1394 CS
17
1
CN1654
CN1653
CN1652
(ANP7418-A)

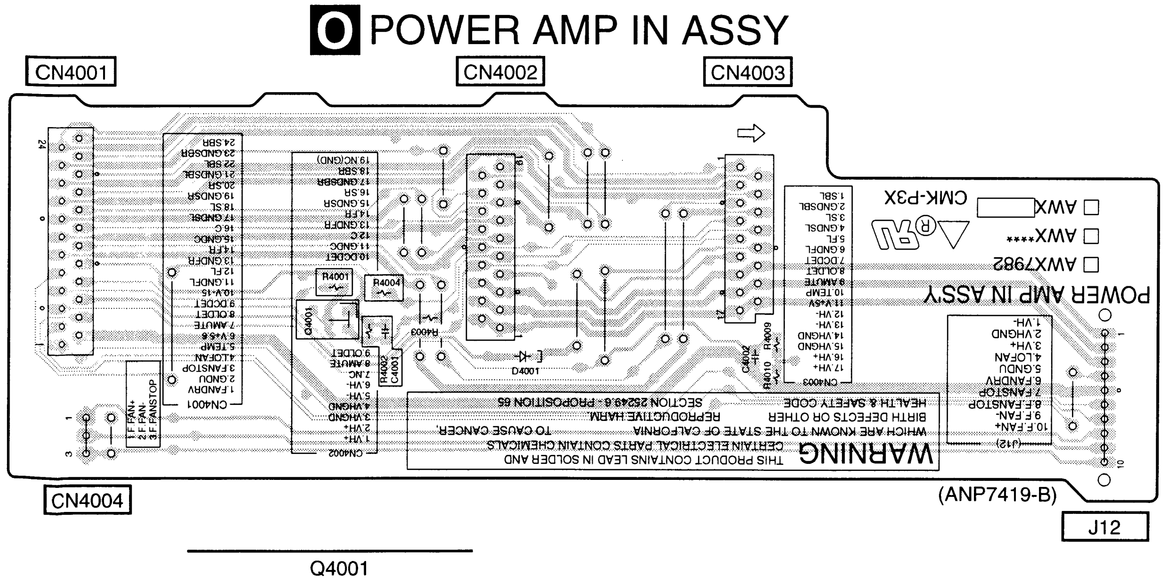
L M N

4.9 POWER AMP IN ASSY

SIDE A **SIDE A**


FAN MOTOR (FRONT)
CN4004
P CN4054
J12
O POWER AMP IN ASSY
3.F.FANSTOP
2.F.FAN-
1.F.FAN+
W4015
CN4001
1.FANDRV
2.GNDU
3.FANSTOP
4.LOFAN
5.TEMP
6.V+5.6
7.AMUTE
8.OLDET
9.DCDET
10.V-15
11.GNDFL
12.FL
13.GNDFR
14.FR
15.GNDC
16.C
17.GNDSL
18.SL
19.GNDSR
20.SR
21.GNDSBL
22.SBL
23.GNDSBR
24.SBR
W4001
CN4002
1.VH+
2.VH+
3.VHGND
4.VHGND
5.VH-
6.VH-
7.NC
8.AMUTE
9.OLDET
10.DCDET
11.GNDC
12.C
13.GNDFR
14.FR
15.GNDSR
16.SR
17.GNDSBR
18.SBR
19.NC(GND)
W4002
W4003
W4004
W4005
W4006
W4007
W4008
W4009
W4010
W4011
W4012
W4013
W4014
CN4003
17.VH+
16.VH+
15.VHGND
14.VHGND
13.VH-
12.VH-
11.V+6V
10.TEMP
9.AMUTE
8.OLDET
7.DCDET
6.GNDFL
5.FL
4.GNDSL
3.SL
2.GNDSBL
1.SBL
(J12)
10.F.FAN+
9.F.FAN-
8.F.FANSTOP
7.FANSTOP
6.FANDRV
5.GNDU
4.LOFAN
3.VH+
2.VHGND
1.VH-
4001
POWER AMP IN ASS'Y
AWX7982
CMK-P3X
(ANP7419-B)
CN4001
CN4002
CN4003
K CN801
Y CN4402
X CN4401

SIDE B **SIDE B**

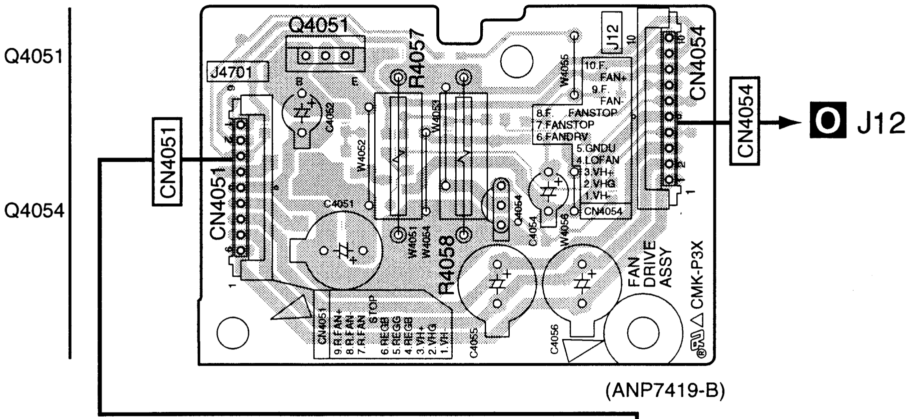

O POWER AMP IN ASSY
CN4001
CN4002
CN4003
R4001
R4004
Q4001
R4002
C4001
R4009
D4001
C4002
R4010
R4009
☐ AWX
☐ AWX****
☐ AWX7982
CMK-P3X
POWER AMP IN ASS'Y
WARNING
THIS PRODUCT CONTAINS LEAD IN SOLDER AND CERTAIN ELECTRICAL PARTS CONTAIN CHEMICALS WHICH ARE KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.
HEALTH & SAFETY CODE SECTION 25249.6 - PROPOSITION 65
CN4004
(ANP7419-B)
J12
Q4001

4.10 FAN DRIVE and FAN CONNECTION ASSYS

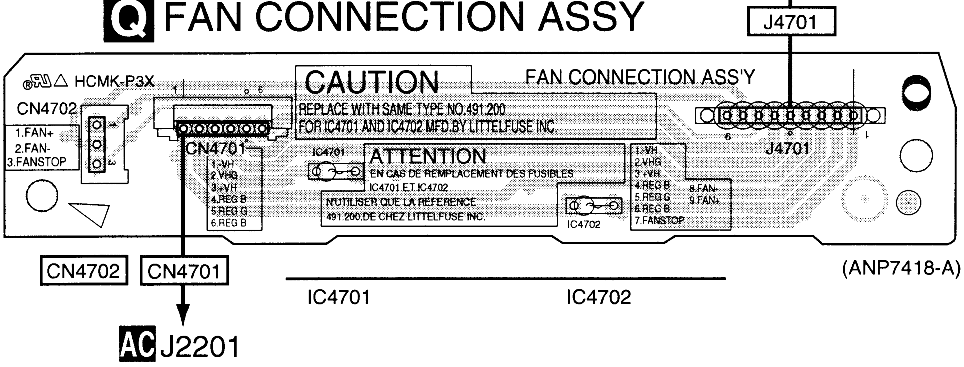
SIDE A

SIDE A

P FAN DRIVE ASSY


Q4051
Q4054
CN4051
J4701
R4057
R4058
W4052
W4053
W4054
W4055
W4056
W4051
C4051
C4052
C4054
C4055
C4056
Q4054
J12
CN4054
10.F. FAN+
9.F. FAN-
8.F. FANSTOP
7.FANSTOP
6.FANDRV
5.GNDU
4.LOFAN
3.VH+
2.VHG
1.VH
CN4051
9.R.F.FAN+
8.R.F.FAN-
7.R.F.FAN STOP
6.REGB
5.REGG
4.REGB
3.VH+
2.VHG
1.VH
FAN DRIVE ASSY
CMK-P3X
O J12
(ANP7419-B)

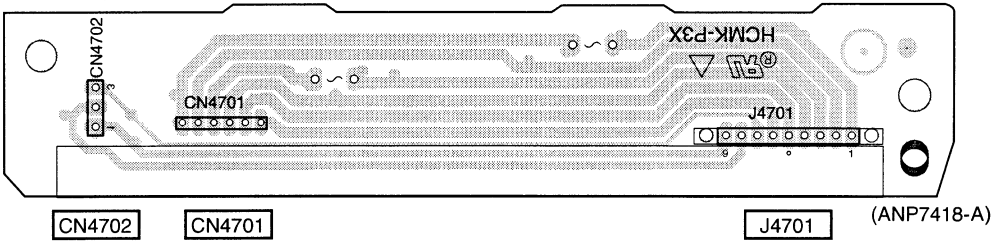
Q FAN CONNECTION ASSY


J4701
HCMK-P3X
CN4702
1.FAN+
2.FAN-
3.FANSTOP
CN4701
1.-VH
2.VHG
3.+VH
4.REG B
5.REG G
6.REG B
CAUTION
REPLACE WITH SAME TYPE NO.491.200
FOR IC4701 AND IC4702 MFD.BY LITTELFUSE INC.
FAN CONNECTION ASS'Y
IC4701
ATTENTION
EN CAS DE REMPLACEMENT DES FUSIBLES
IC4701 ET IC4702
N'UTILISER QUE LA REFERENCE
491.200.DE CHEZ LITTELFUSE INC.
IC4702
1.-VH
2.VHG
3.+VH
4.REG B
5.REG G
6.REG B
7.FANSTOP
8.FAN-
9.FAN+
J4701
CN4702
CN4701
IC4701
IC4702
AC J2201
(ANP7418-A)

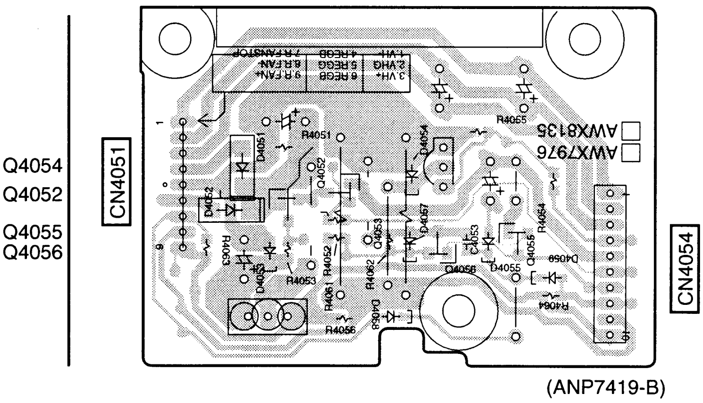
SIDE B

SIDE B

Q FAN CONNECTION ASSY


CN4702
CN4701
HCMK-P3X
J4701
CN4702
CN4701
J4701
(ANP7418-A)

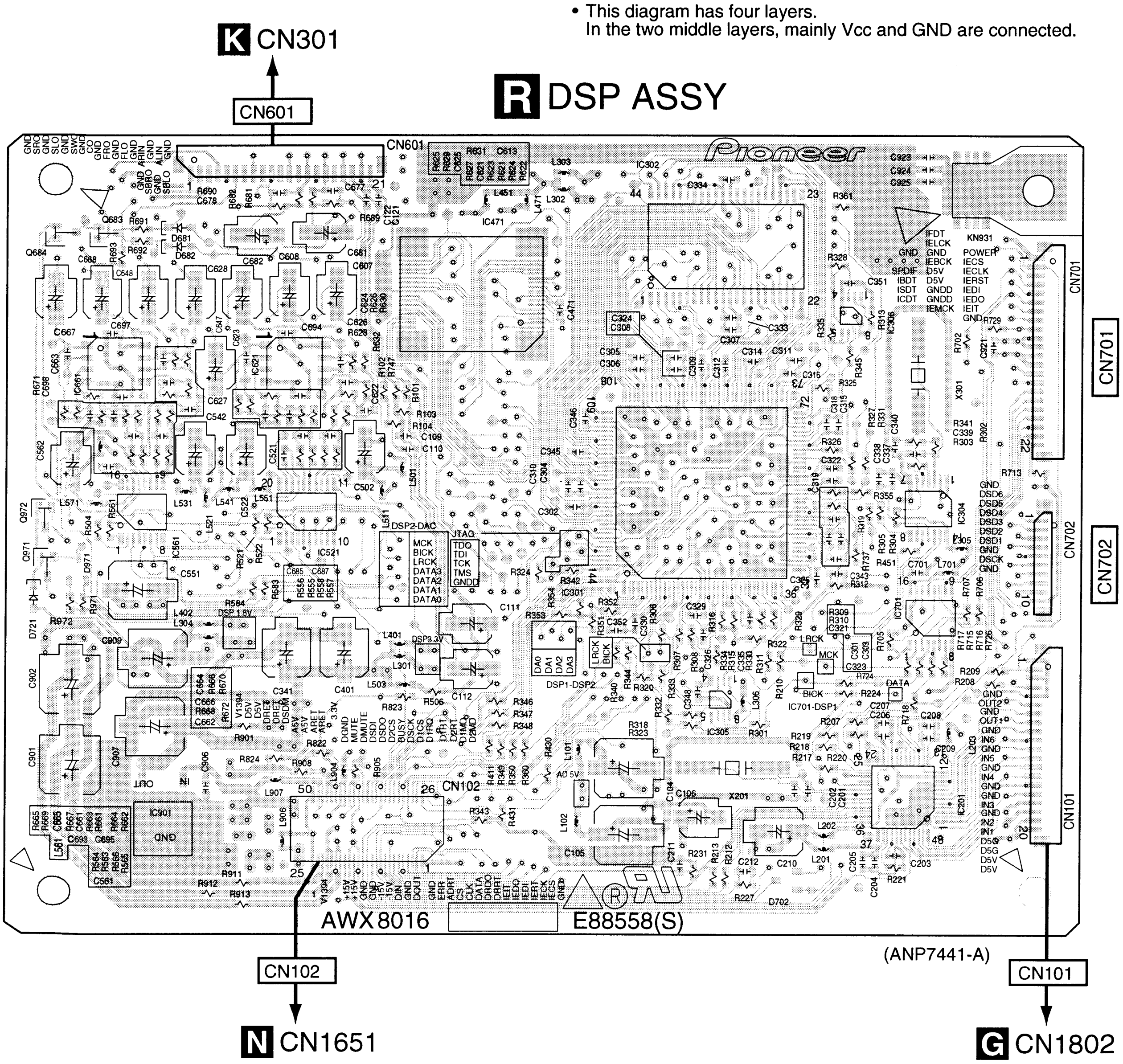
P FAN DRIVE ASSY


Q4054
Q4052
Q4055
Q4056
CN4051
CN4054
AWX8135
AWX7976
R4051
R4052
R4053
R4054
R4055
R4056
R4061
R4062
R4063
R4064
D4051
D4052
D4053
D4054
D4055
D4056
D4057
D4058
C4053
Q4052
Q4053
Q4054
Q4055
Q4056
1.VH
2.VHG
3.VH+
4.REGB
5.REGG
6.REGB
7.R.FANSTOP
8.R.FAN-
9.R.FAN+
(ANP7419-B)

4.11 DSP ASSY

SIDE A

- This diagram has four layers.
  In the two middle layers, mainly Vcc and GND are connected.

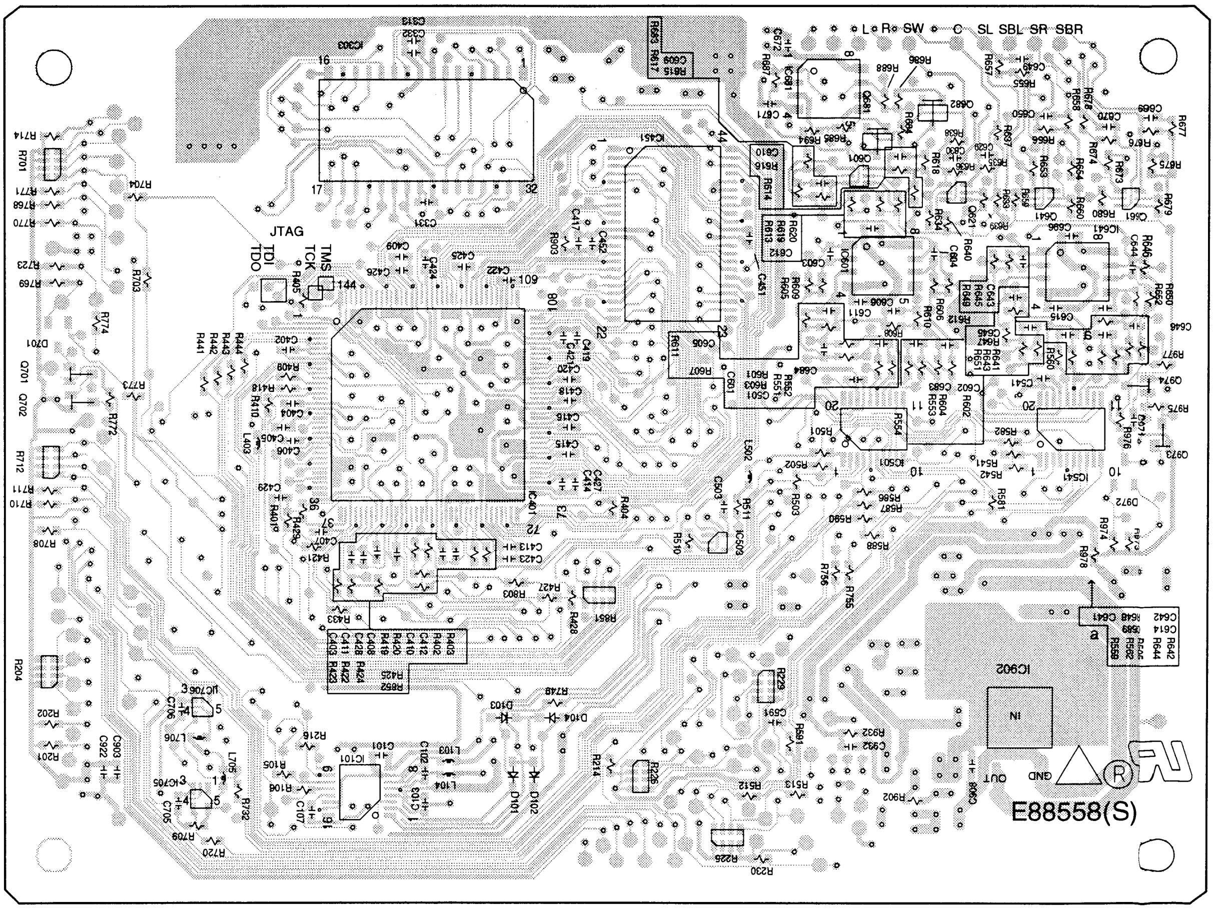

K CN301
CN601
R DSP ASSY
Pioneer
CN701
CN702
CN101
CN102
AWX8016
E88558(S)
(ANP7441-A)
N CN1651
G CN1802
IC302
IC471
IC301
IC305
IC304
IC701
IC201
IC306
IC521
IC561
IC621
IC661
IC901
X201
X301
DSP2-DAC
JTAG
DSP1-DSP2
IC701-DSP1

Q972 IC661 IC621 IC471 IC302 IC306
Q971 IC561 IC521 IC301 IC304
IC901 IC305 IC701
IC201

SIDE B

- This diagram has four layers.
  In the two middle layers, mainly Vcc and GND are connected.

R DSP ASSY

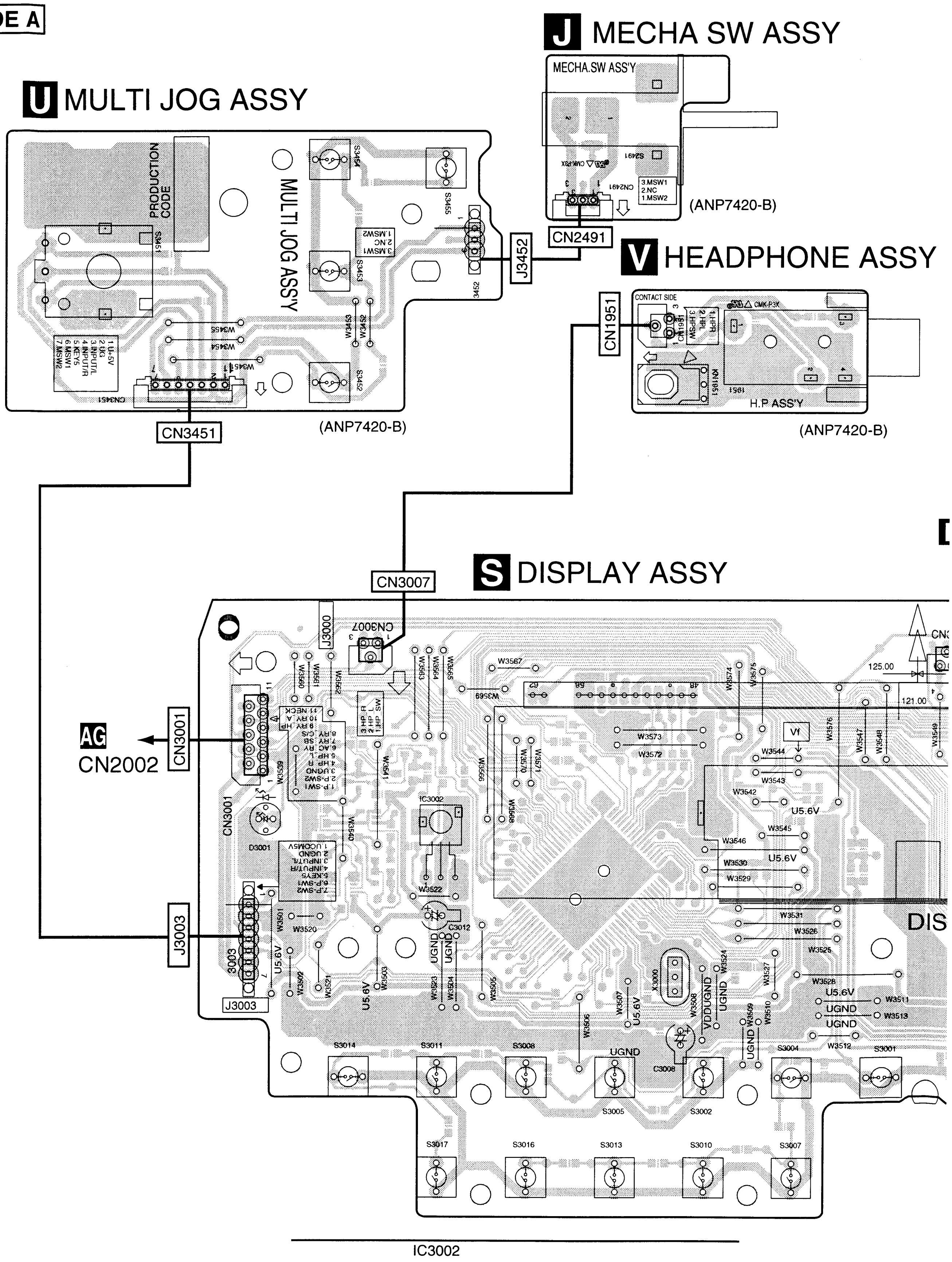

L R SW C SL SBL SR SBR
JTAG
TMS
TCK
TDI
TDO
IC303
IC451
IC681
IC601
IC641
IC401
IC501
IC541
IC503
IC902
IC101
IC706
IC705
Q701
Q702
D701
GND
OUT
E88558(S)

(ANP7441-A)

Q701 IC303 IC451 IC681 Q682
Q702 IC706 IC101 IC401 Q681
IC705 Q601 Q621 Q641 Q661
IC601 IC611
Q974
IC503 IC501 IC902 IC541 Q973

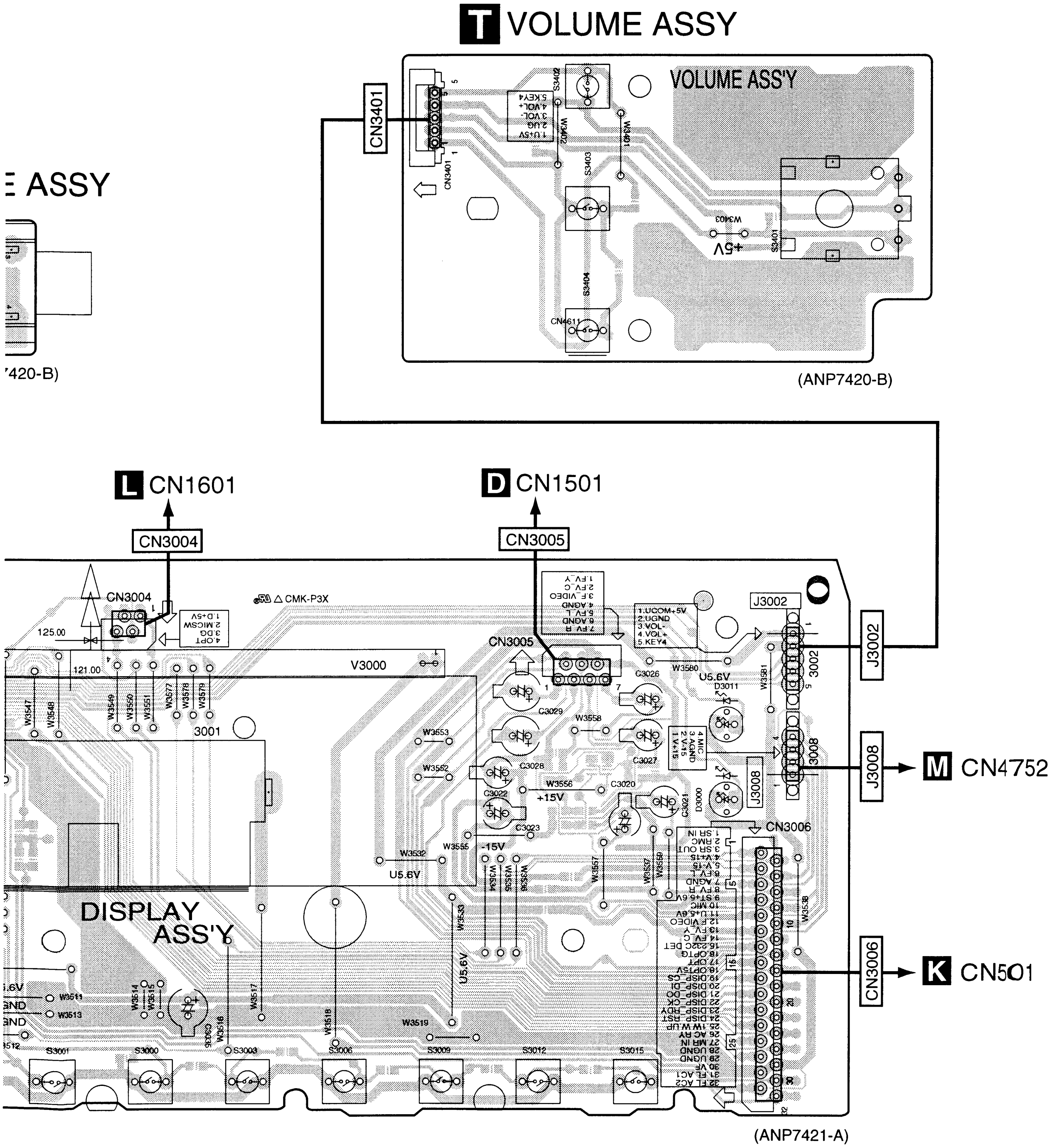
4.12 MECHA SW, DISPLAY, VOLUME, MULTI JOG and HEADPHONE ASSYS

SIDE A


J MECHA SW ASSY
MECHA.SW ASS'Y
S2491
CN2491
3.MSW1
2.NC
1.MSW2
(ANP7420-B)
CN2491
U MULTI JOG ASSY
PRODUCTION CODE
MULTI JOG ASSY
S3451
S3452
S3453
S3454
S3455
1.MSW2
2.NC
3.MSW1
W3453
W3454
W3455
1.U+5V
2.UG
3.INPUTL
4.INPUT/R
5.KEYS
6.MSW1
7.MSW2
CN3451
(ANP7420-B)
CN3451
J3452
3452
V HEADPHONE ASSY
CONTACT SIDE
1.HPR
2.HPL
3.HPSW
CN1951
KN1951
H.P ASS'Y
(ANP7420-B)
CN1951
CN3007
S DISPLAY ASSY
J3000
CN3007
AG
CN2002
CN3001
1.P-SW1
2.P-SW2
3.UGND
4.HP_R
5.HP_L
6.AC_RY
7.RY_SB
8.RY_C/S
9.RY_HP
10.RY_A
11.NECK
1.HP_R
2.HP_L
3.HP_SW
1.UCOM5V
2.UGND
3.INPUT/L
4.INPUT/R
5.KEYS
6.P-SW1
7.P-SW2
D3001
IC3002
J3003
3003
U5.6V
UGND
VDDUGND
X3000
C3008
C3012
Vf
125.00
121.00
DIS
W3501
W3502
W3503
W3504
W3505
W3506
W3507
W3508
W3509
W3510
W3511
W3512
W3513
W3520
W3521
W3522
W3523
W3524
W3525
W3526
W3527
W3528
W3529
W3530
W3531
W3539
W3540
W3541
W3542
W3543
W3544
W3545
W3546
W3547
W3548
W3549
W3560
W3561
W3562
W3563
W3564
W3565
W3566
W3567
W3568
W3569
W3570
W3571
W3572
W3573
W3574
W3575
W3576
S3001
S3002
S3004
S3005
S3007
S3008
S3010
S3011
S3013
S3014
S3016
S3017
IC3002

J **S** **U** **V**

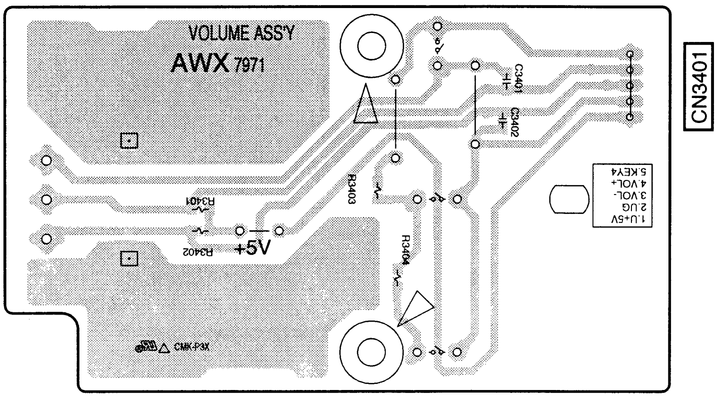
SIDE A


T VOLUME ASSY
VOLUME ASS'Y
CN3401
S3402
1.U+5V
2.UG
3.VOL-
4.VOL+
5.KEY4
W3402
W3401
S3403
W3403
+5V
S3401
S3404
CN4611
(ANP7420-B)
E ASSY
'420-B)
L CN1601
CN3004
D CN1501
CN3005
CN3004
125.00
121.00
CMK-P3X
1.D+5V
2.MICSW
3.DG
4.OPT
1.FV_Y
2.FV_C
3.F_VIDEO
4.AGND
5.FV_L
6.AGND
7.FV_R
1.UCOM+5V
2.UGND
3.VOL-
4.VOL+
5.KEY4
J3002
3002
J3002
V3000
3001
W3547
W3548
W3549
W3550
W3551
W3577
W3578
W3579
C3026
W3580
U5.6V
D3011
W3581
C3029
W3558
W3553
C3027
1.V+15
2.AGND
3.V-15
4.MIC
3008
J3008
J3008
M CN4752
W3552
C3028
C3022
W3556
+15V
C3020
C3021
D3000
C3023
CN3006
W3555
-15V
W3532
U5.6V
W3534
W3535
W3536
W3557
W3537
W3559
1.SR IN
2.RMC
3.SR OUT
4.V+15
5.V-15
6.FV_L
7.AGND
8.FV_R
9.ST+5.6V
10.MIC
11.U+5.6V
12.F.VIDEO
13.FV_Y
14.FV_C
15.D22C DET
16.OPTG
17.OPT
18.OPT5V
19.DISP_CS
20.DISP_DI
21.DISP_DO
22.DISP_CK
23.DISP_RDY
24.DISP_RST
25.1W.W.UP
26.AC RY
27.MR IN
28.UGND
29.UGND
30.VF
31.FL AC1
32.FL AC2
W3538
CN3006
K CN501
DISPLAY ASS'Y
W3533
U5.6V
W3511
W3513
W3514
W3515
W3516
W3517
W3518
W3519
C3030
S3001
S3000
S3003
S3006
S3009
S3012
S3015
(ANP7421-A)

S T V

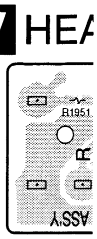
SIDE B

T VOLUME ASSY


VOLUME ASS'Y
AWX 7971
CN3401
C3401
C3402
R3401
R3402
R3403
R3404
+5V
1.U+5V
2.UG
3.VOL-
4.VOL+
5.KEY4
CMK-P3X

(ANP7420-B)

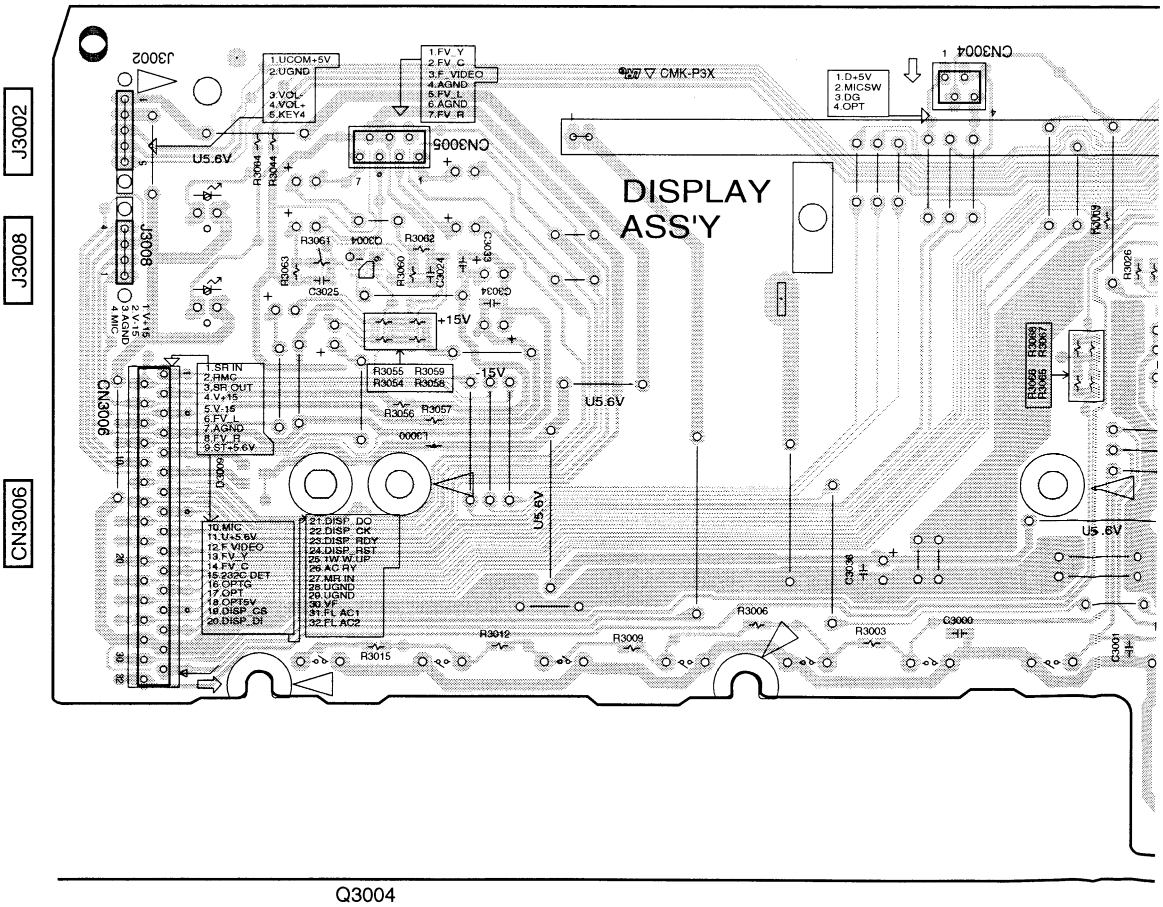
V HEA



CN3005

S DISPLAY ASSY

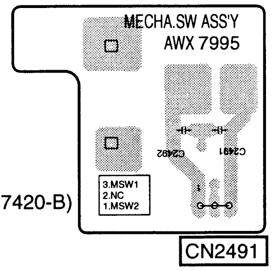
CN3004


J3002
J3008
CN3006
CN3005
CN3004
1.UCOM+5V
2.UGND
3.VOL-
4.VOL+
5.KEY4
1.FV_Y
2.FV_C
3.F_VIDEO
4.AGND
5.FV_L
6.AGND
7.FV_R
CMK-P3X
1.D+5V
2.MICSW
3.DG
4.OPT
DISPLAY ASS'Y
U5.6V
1.V+15
2.V-15
3.AGND
4.MIC
R3064
R3044
R3061
R3063
R3062
R3060
C3004
C3025
C3024
C3033
C3034
+15V
-15V
R3055
R3059
R3054
R3058
R3056
R3057
L3000
1.SR IN
2.RMC
3.SR OUT
4.V+15
5.V-15
6.FV_L
7.AGND
8.FV_R
9.ST+5.6V
10.MIC
11.U+5.6V
12.F VIDEO
13.FV_Y
14.FV_C
15.232C DET
16.OPTG
17.OPT
18.OPT5V
19.DISP_CS
20.DISP_DI
21.DISP_DO
22.DISP_CK
23.DISP_RDY
24.DISP_RST
25.1W W.UP
26.AC RY
27.MR IN
28.UGND
29.UGND
30.VF
31.FL AC1
32.FL AC2
D3000
R3009
R3026
R3068
R3067
R3066
R3065
C3036
R3006
R3003
C3000
C3001
R3012
R3015
Q3004

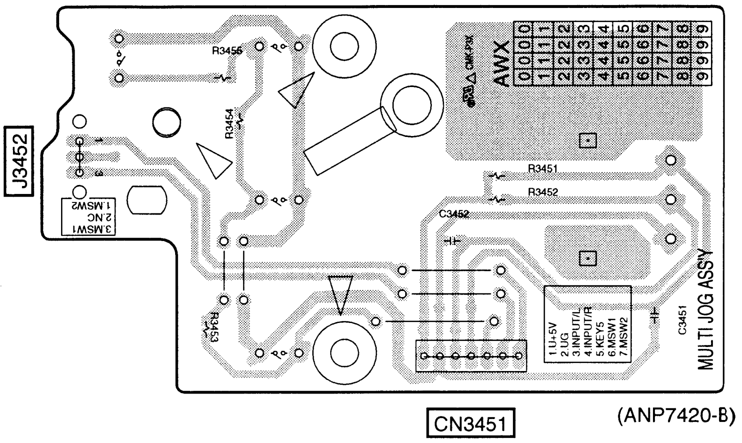
S T V

SIDE B

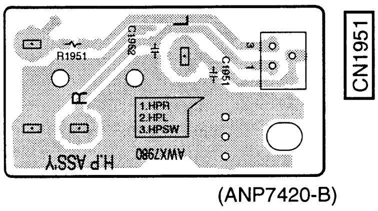
J MECHA SW ASSY

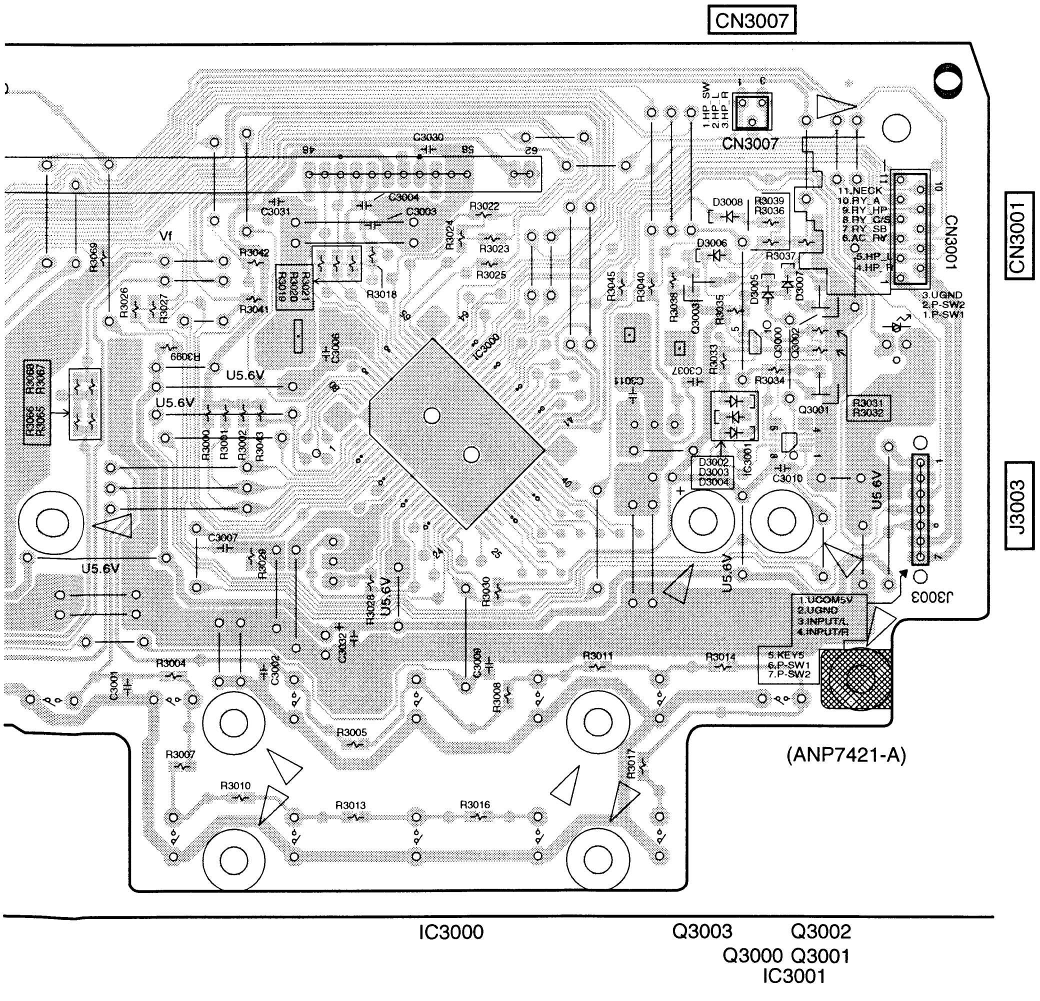

MECHA.SW ASS'Y
AWX 7995
C2492
C2491
3.MSW1
2.NC
1.MSW2
(ANP7420-B)
CN2491

U MULTI JOG ASSY


J3452
R3456
R3454
R3453
R3451
R3452
C3452
C3451
AWX
3.MSW1
2.NC
1.MSW2
1.U+5V
2.UG
3.INPUT/L
4.INPUT/R
5.KEY5
6.MSW1
7.MSW2
MULTI JOG ASS'Y
CN3451
(ANP7420-B)

V HEADPHONE ASSY

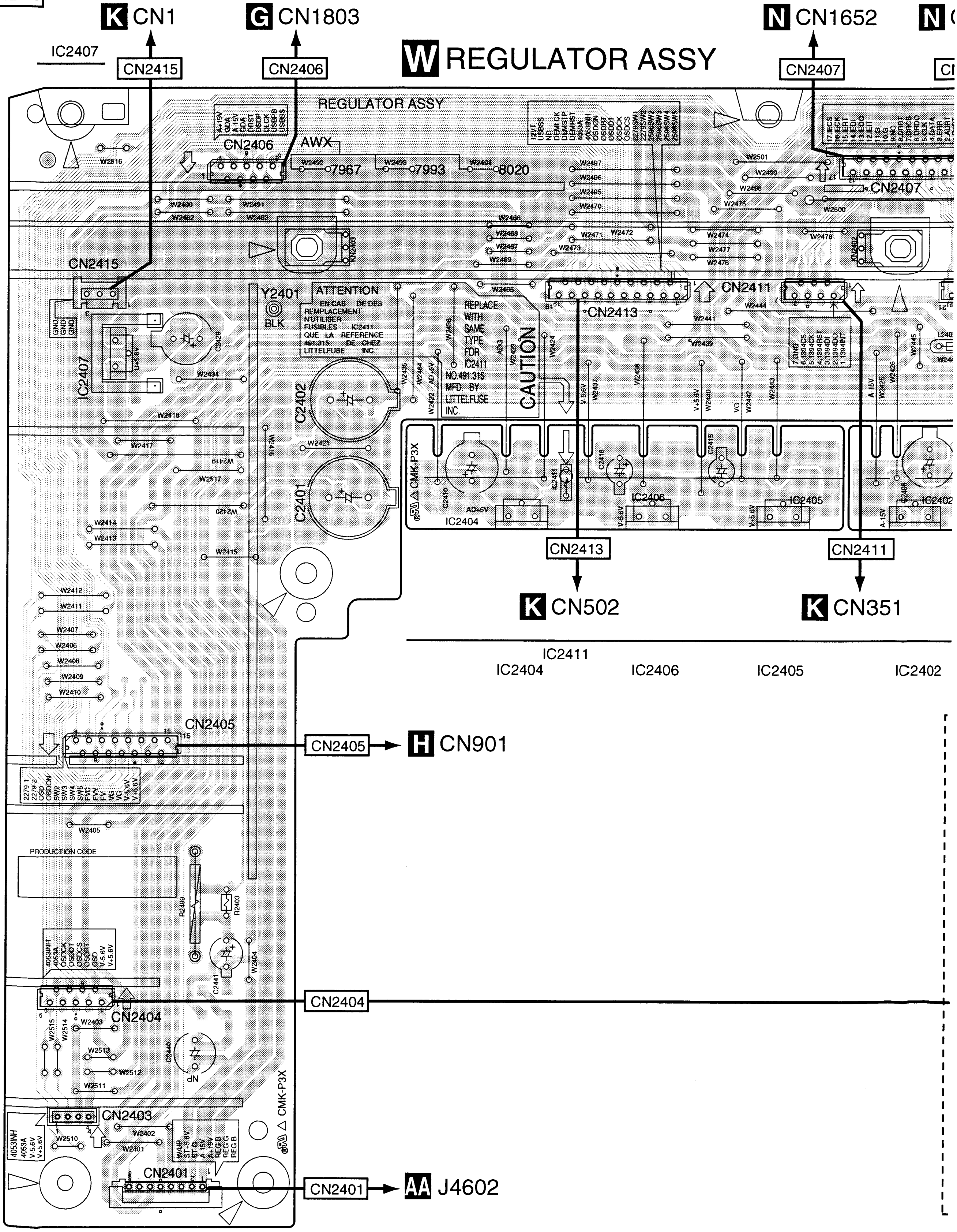

R1951
C1952
C1951
R
L
1.HPR
2.HPL
3.HPSW
H.P ASS'Y
AWX7980
CN1951
(ANP7420-B)


CN3007
1.HP SW
2.HP_L
3.HP_R
C3030
C3031
C3004
C3003
R3022
R3024
R3023
R3025
R3018
R3042
R3041
R3019
R3020
R3021
R3069
R3026
R3027
R3099
C3006
Vf
U5.6V
R3066
R3065
R3068
R3067
R3000
R3001
R3002
R3043
IC3000
D3008
D3006
R3039
R3036
R3037
D3005
D3007
R3045
R3040
R3038
R3035
Q3003
Q3000
Q3002
R3033
C3037
C3011
R3034
Q3001
R3031
R3032
D3002
D3003
D3004
IC3001
C3010
11.NECK
10.RY_A
9.RY_HP
8.RY_C/S
7.RY_SB
6.AC_IN
5.HP_L
4.HP_R
3.UGND
2.P-SW2
1.P-SW1
CN3001
J3003
C3007
R3029
R3028
R3030
C3032
C3001
C3002
C3008
R3004
R3011
R3014
R3008
R3005
R3007
R3010
R3013
R3016
R3017
1.UCOM5V
2.UGND
3.INPUT/L
4.INPUT/R
5.KEY5
6.P-SW1
7.P-SW2
(ANP7421-A)
IC3000
Q3003
Q3002
Q3000 Q3001
IC3001

J S U V

4.13 REGULATOR and COMPONENT ASSYS

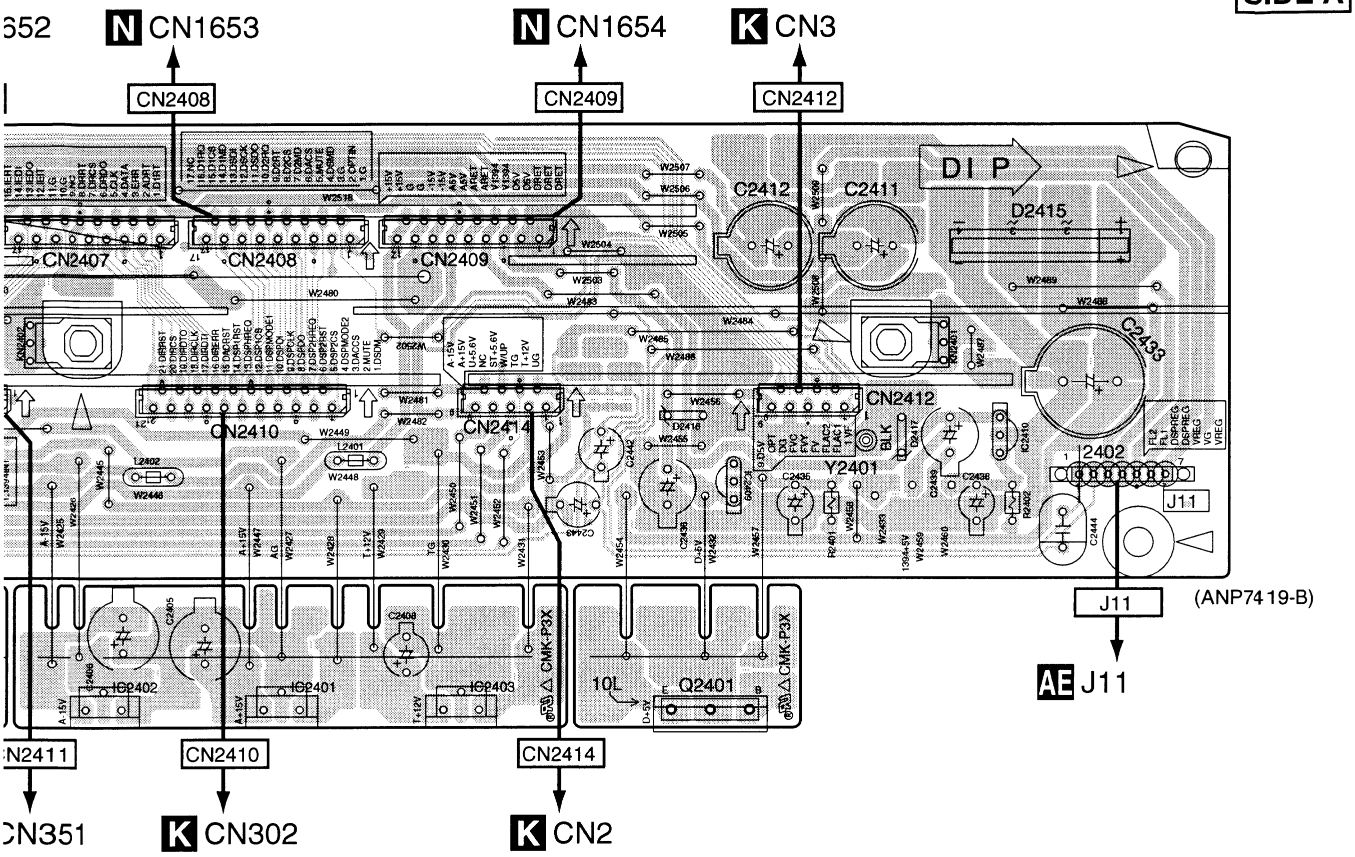
SIDE A


K CN1
G CN1803
N CN1652
W REGULATOR ASSY
IC2407
CN2415
CN2406
CN2407
REGULATOR ASSY
AWX
7967
7993
8020
Y2401
BLK
ATTENTION
EN CAS DE DES REMPLACEMENT N'UTILISER FUSIBLES IC2411 QUE LA REFERENCE 491.315 DE CHEZ LITTELFUSE INC.
REPLACE WITH SAME TYPE FOR IC2411 NO.491.315 MFD. BY LITTELFUSE INC.
CAUTION
CN2413
CN2411
C2402
C2401
CMK-P3X
IC2404
IC2406
IC2405
IC2402
IC2411
CN2413
CN2411
K CN502
K CN351
CN2405
H CN901
PRODUCTION CODE
R2409
R2403
C2441
C2440
CN2404
CN2403
CN2401
AA J4602

IC2411
IC2404 IC2406 IC2405 IC2402

W

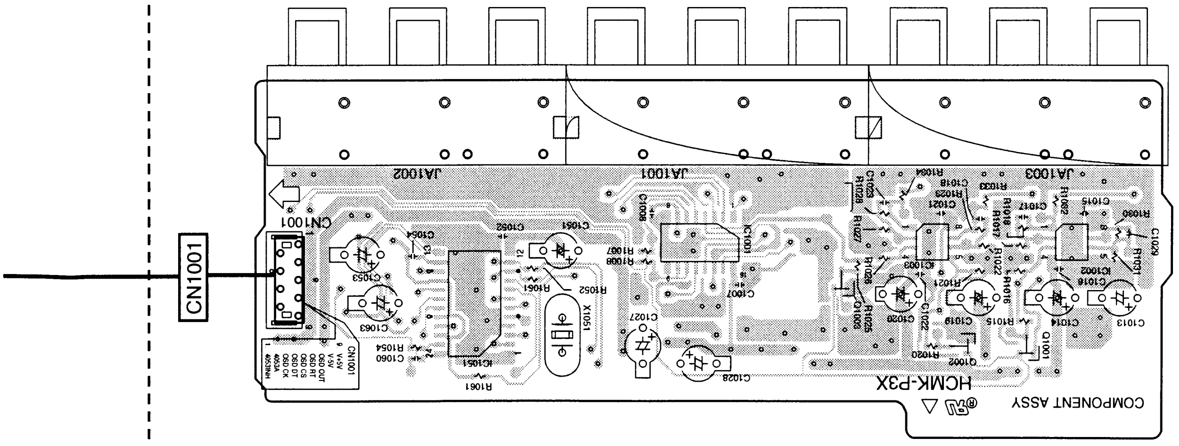
SIDE A


652
N CN1653
N CN1654
K CN3
CN2408
CN2409
CN2412
CN2407
CN2410
CN2414
CN2411
C2412
C2411
DIP
D2415
C2433
Y2401
BLK
J11
(ANP7419-B)
J11
AE J11
CMK-P3X
IC2402
IC2401
IC2403
10L
Q2401
CN2411
CN2410
CN2414
CN351
K CN302
K CN2

IC2402 IC2401 IC2403 IC2409 Q2401 Q2402 IC2410

VSX-D2011-S ONLY

I COMPONENT ASSY

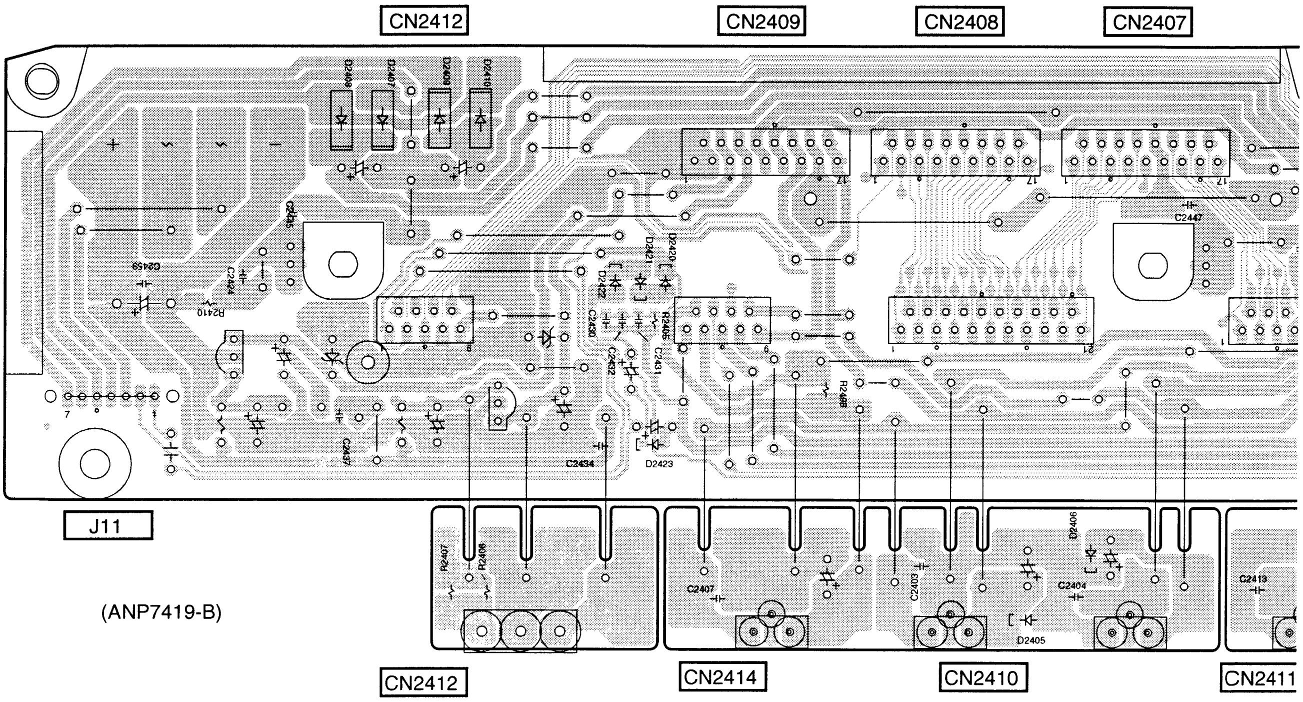

CN1001
JA1002
JA1001
JA1003
HCMK-P3X
COMPONENT ASSY

(ANP7418-A)

IC1051 IC1001 Q1003 IC1003 IC1002 Q1002 Q1001

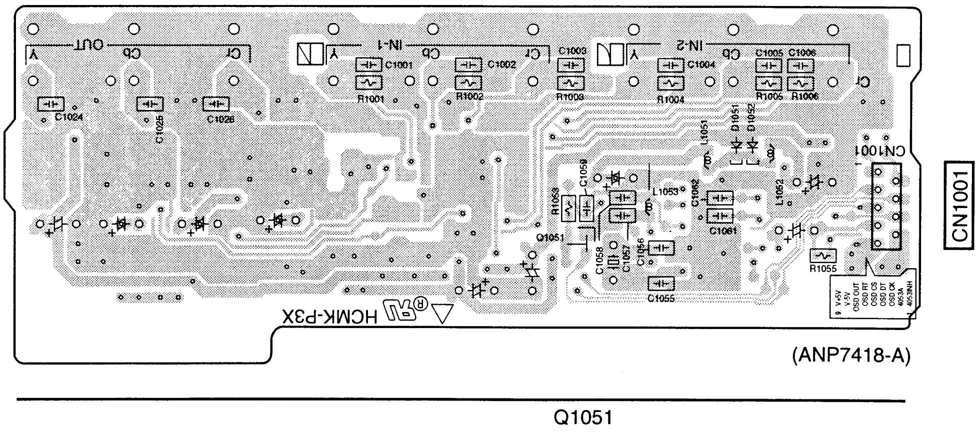
SIDE B

W REGULATOR ASSY

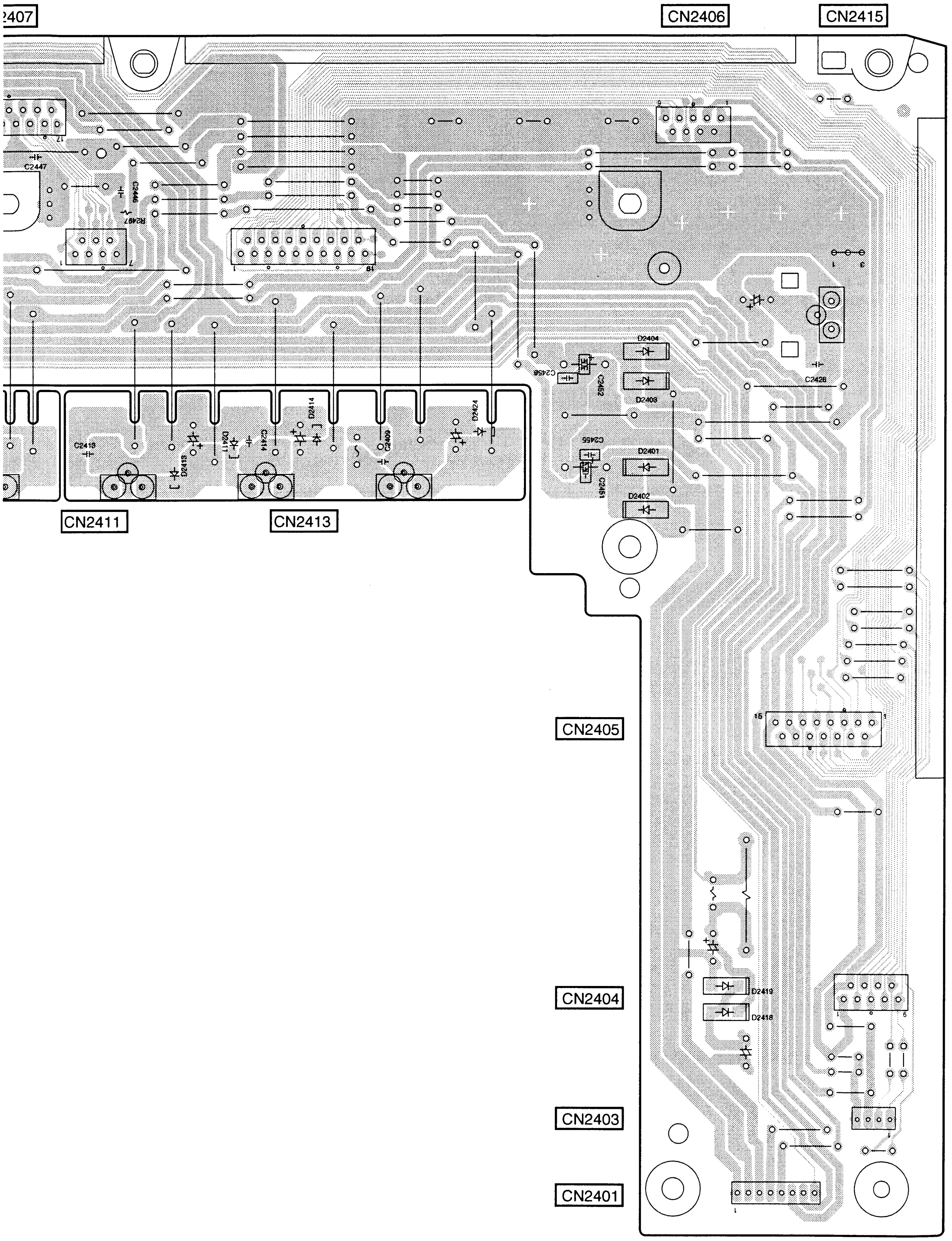

CN2412
CN2409
CN2408
CN2407
D2408
D2407
D2409
D2410
C2459
C2424
R2410
C2425
C2437
C2434
D2421
D2420
D2422
C2430
R2405
C2432
C2431
D2423
R2498
C2447
J11
(ANP7419-B)
R2407
R2408
C2407
C2403
D2406
C2404
D2405
C2413
CN2412
CN2414
CN2410
CN2411

VSX-D2011-S ONLY

I COMPONENT ASSY

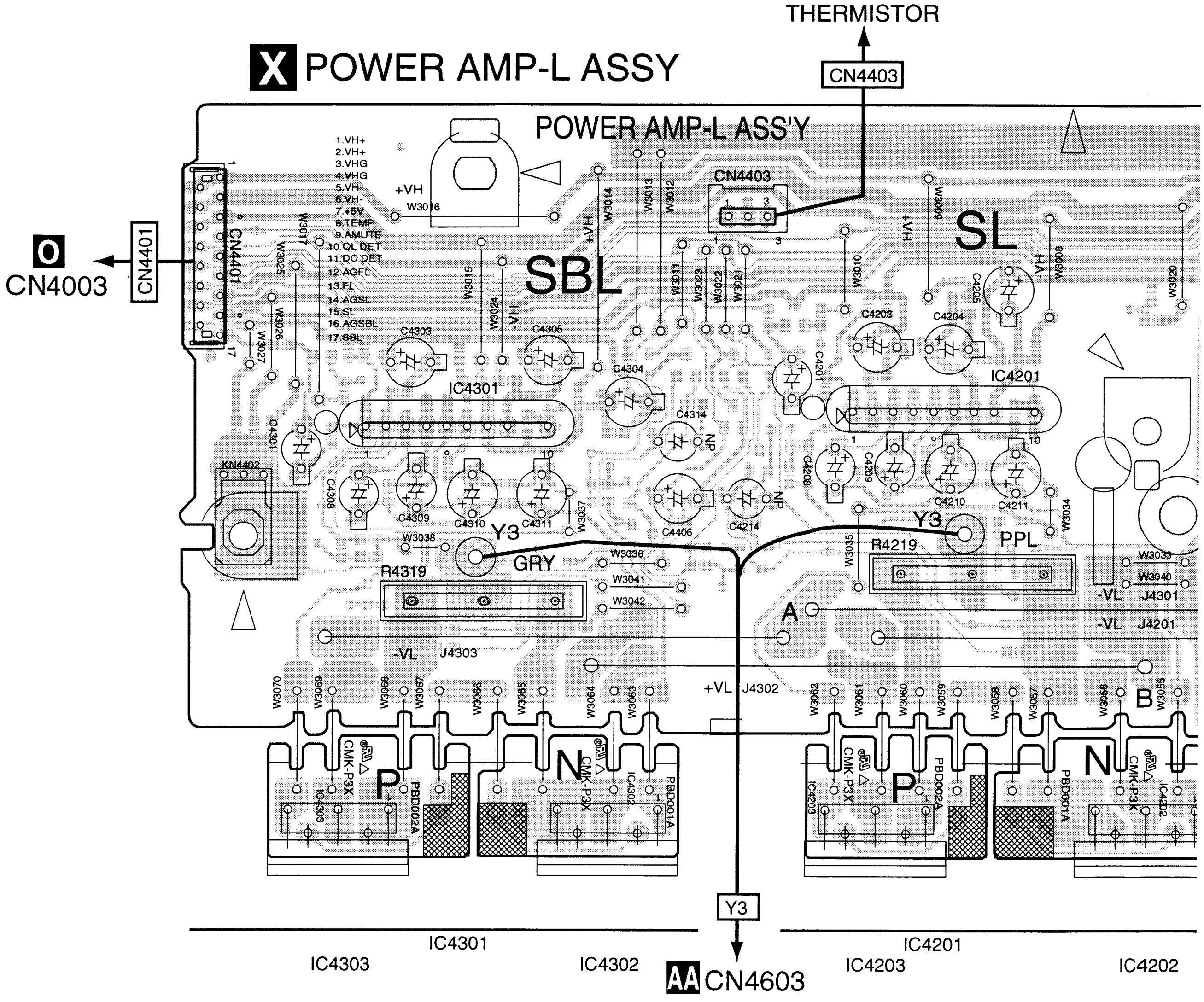

OUT
Y
Cb
Cr
IN-1
IN-2
C1001
C1002
C1003
C1004
C1005
C1006
R1001
R1002
R1003
R1004
R1005
R1006
C1024
C1025
C1026
L1051
D1051
D1052
CN1001
R1053
C1059
L1053
C1062
L1052
C1061
Q1051
C1058
C1057
C1056
C1055
R1055
HCMK-P3X
(ANP7418-A)
Q1051
CN1001

SIDE B

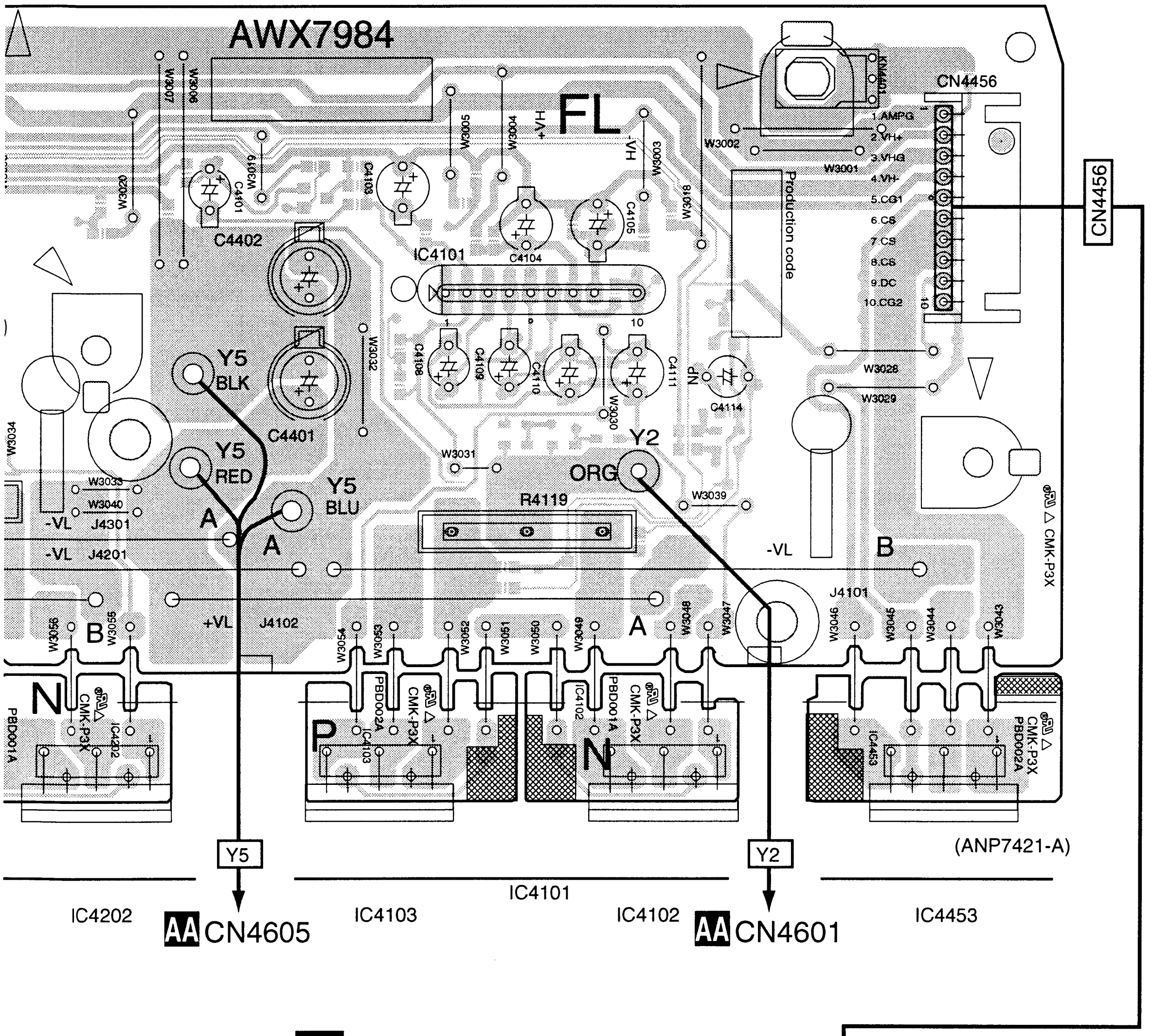

2407
CN2406
CN2415
C2447
C2446
R2497
CN2411
CN2413
C2418
D2413
D2411
C2414
D2414
C2409
D2424
C2456
C2462
D2404
D2403
C2455
C2451
D2401
D2402
C2428
CN2405
CN2404
D2419
D2418
CN2403
CN2401

4.14 POWER AMP L and POWER AMP C ASSYS

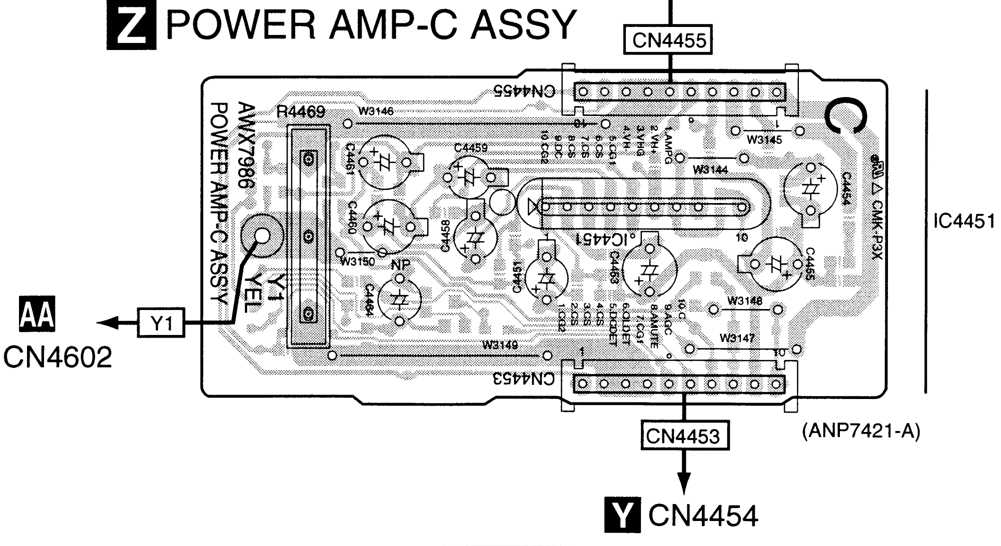
SIDE A


THERMISTOR
X POWER AMP-L ASSY
CN4403
POWER AMP-L ASS'Y
O CN4003
CN4401
1.VH+
2.VH+
3.VHG
4.VHG
5.VH-
6.VH-
7.+5V
8.TEMP
9.AMUTE
10.OL DET
11.DC DET
12.AGFL
13.FL
14.AGSL
15.SL
16.AGSBL
17.SBL
+VH
W3016
SBL
SL
IC4301
IC4201
KN4402
Y3
GRY
R4319
R4219
PPL
A
B
-VL
J4303
J4201
J4301
+VL
J4302
P
N
CMK-P3X
PBD002A
PBD001A
Y3
AA CN4603
IC4301
IC4303
IC4302
IC4201
IC4203
IC4202

SIDE A

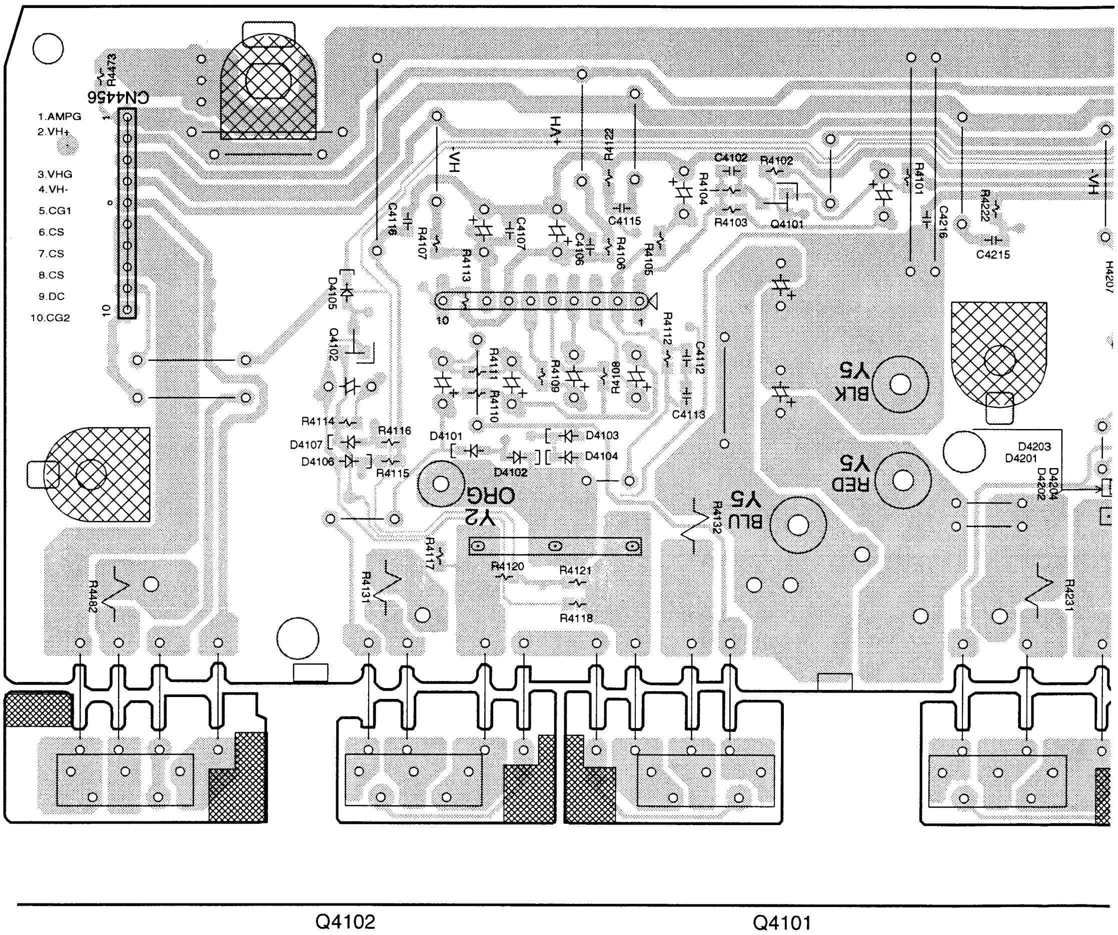

AWX7984
FL
CN4456
1.AMPG
2.VH+
3.VHG
4.VH-
5.CG1
6.CS
7.CS
8.CS
9.DC
10.CG2
CN4456
Production code
IC4101
C4402
C4401
C4101
C4103
C4104
C4105
C4108
C4109
C4110
C4111
C4114
NP
Y5 BLK
Y5 RED
Y5 BLU
Y2 ORG
R4119
-VL J4301
-VL J4201
+VL J4102
-VL
J4101
A
B
N
P
N
CMK-P3X
PBD001A
PBD002A
IC4202
IC4103
IC4102
IC4453
Y5
Y2
(ANP7421-A)
IC4202
IC4103
IC4101
IC4102
IC4453
AA CN4605
AA CN4601

Z POWER AMP-C ASSY

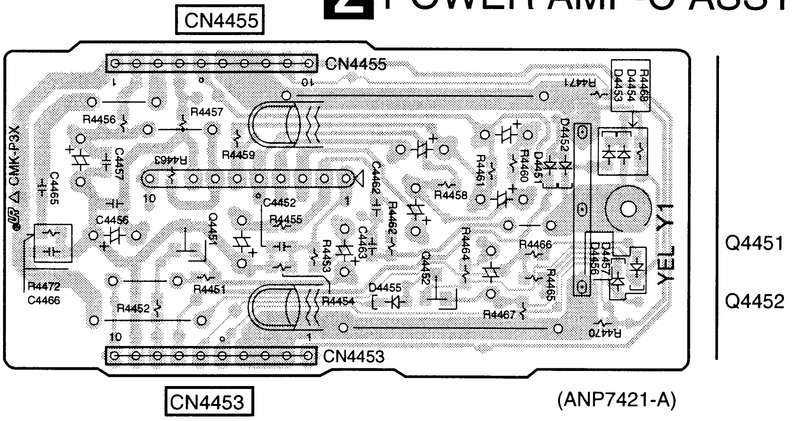

CN4455
CN4455
R4469
AWX7986
POWER AMP-C ASSY
C
W3146
W3145
W3144
W3150
W3148
W3147
W3149
C4459
C4461
C4460
C4458
C4464
C4451
C4453
C4454
C4455
IC4451
NP
CMK-P3X
IC4451
Y1 YEL
Y1
AA CN4602
CN4453
CN4453
(ANP7421-A)
Y CN4454

SIDE B

X POWER AMP-L ASSY

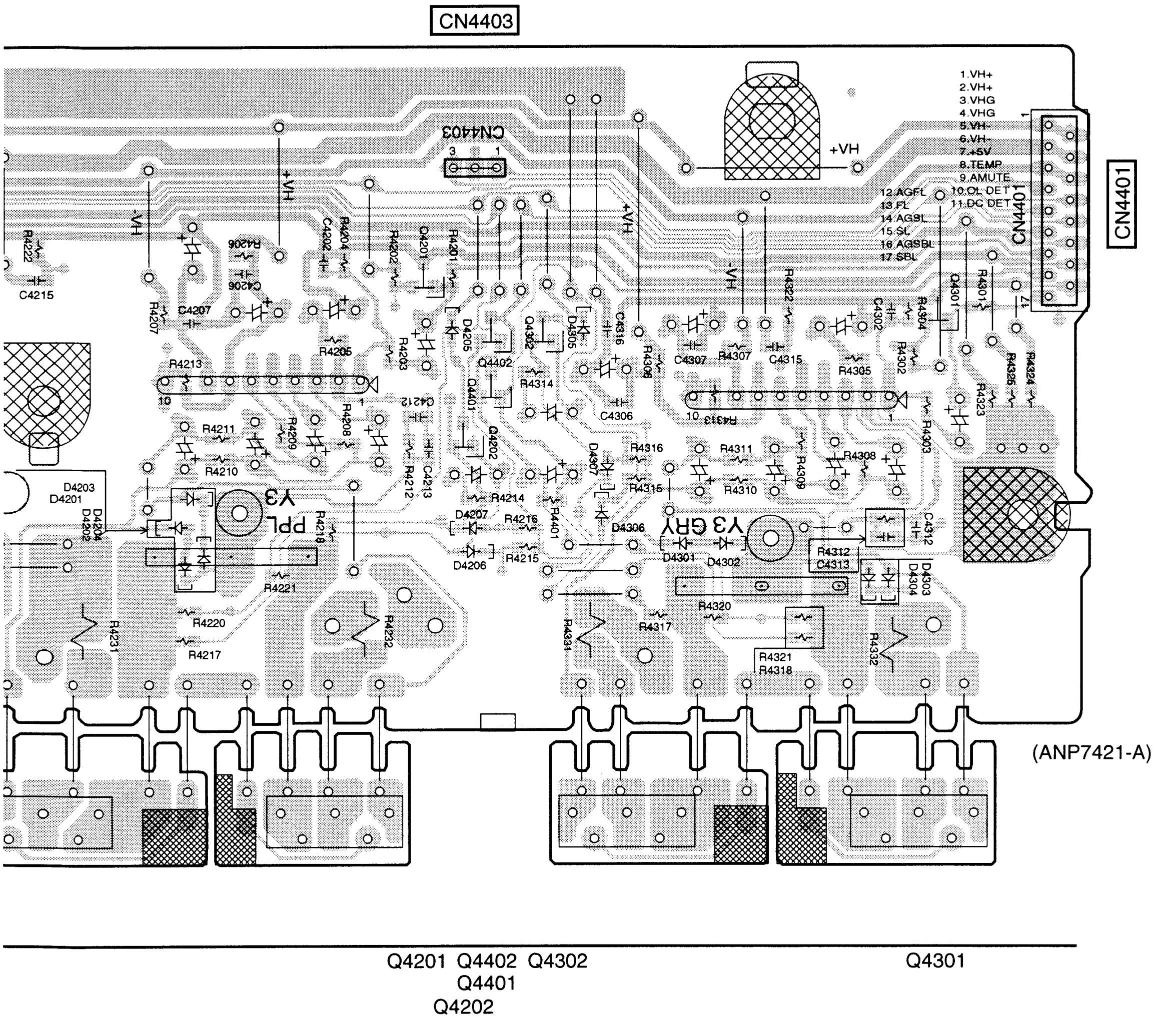

CN4456
1.AMPG
2.VH+
3.VHG
4.VH-
5.CG1
6.CS
7.CS
8.CS
9.DC
10.CG2
R4473
-VH
VH+
R4122
C4102
R4102
R4104
R4103
Q4101
R4101
C4216
R4222
C4215
C4116
R4107
C4107
R4113
C4106
R4106
C4115
R4105
D4105
Q4102
R4112
C4112
R4111
R4110
R4109
R4108
C4113
R4114
D4107
D4106
R4116
R4115
D4101
D4102
D4103
D4104
Y5
BLK
RED
BLU
Y2
ORG
D4203
D4201
D4204
D4202
R4132
R4117
R4120
R4121
R4118
R4131
R4482
R4231
Q4102
Q4101

Z POWER AMP-C ASSY


CN4455
R4471
R4468
D4454
D4453
R4456
R4457
R4459
R4463
C4457
C4465
CMK-P3X
D4452
D4451
R4461
R4460
R4458
C4462
C4452
C4456
R4455
Q4451
C4463
R4462
R4453
R4464
Q4452
R4466
D4457
D4456
YEL Y1
R4472
C4466
R4451
R4452
R4454
D4455
R4467
R4465
R4470
CN4453
Q4451
Q4452

(ANP7421-A)

SIDE B

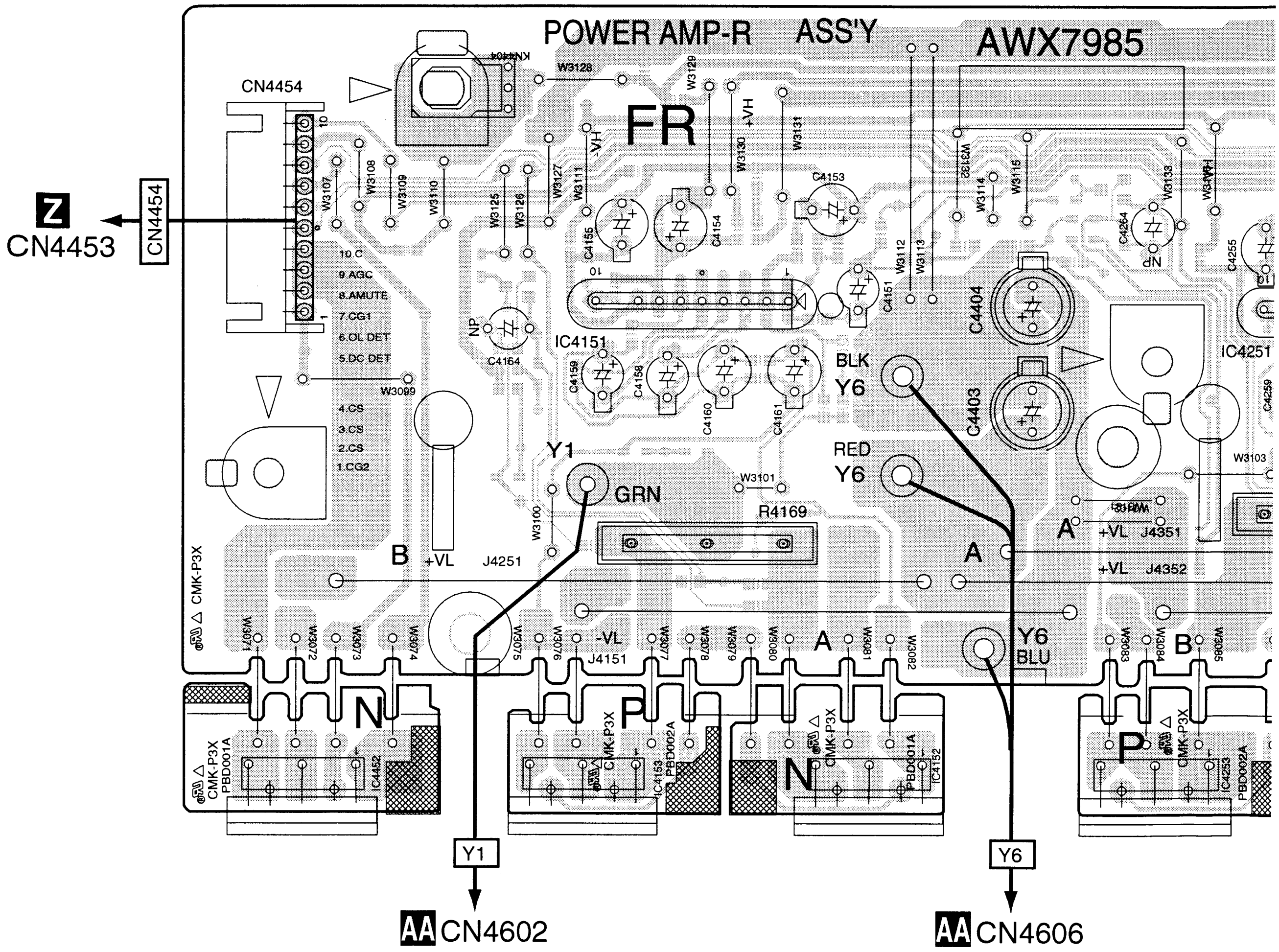

CN4403
CN4401
1.VH+
2.VH+
3.VHG
4.VHG
5.VH-
6.VH-
7.+5V
8.TEMP
9.AMUTE
10.OL DET
11.DC DET
12.AGFL
13.FL
14.AGSL
15.SL
16.AGSBL
17.SBL
+VH
-VH
Y3 PPL
Y3 GRY
R4222
C4215
R4207
C4207
R4206
C4206
C4202
R4204
R4202
Q4201
R4201
D4205
Q4402
Q4302
D4305
C4316
R4306
C4307
R4307
C4315
R4322
C4302
R4304
Q4301
R4301
R4305
R4302
R4326
R4324
R4323
R4213
R4205
R4203
R4208
C4212
Q4401
R4314
C4306
R4313
R4303
R4211
R4209
R4210
R4212
C4213
Q4202
D4307
R4316
R4315
R4311
R4310
R4309
R4308
D4203
D4201
D4204
D4202
R4218
R4214
D4207
R4216
R4401
D4206
R4215
D4306
D4301
D4302
R4312
C4313
C4312
D4303
D4304
R4221
R4220
R4217
R4231
R4232
R4331
R4317
R4320
R4321
R4318
R4332
(ANP7421-A)
Q4201 Q4402 Q4302
Q4401
Q4202
Q4301

X

4.15 POWER AMP R ASSY

SIDE A

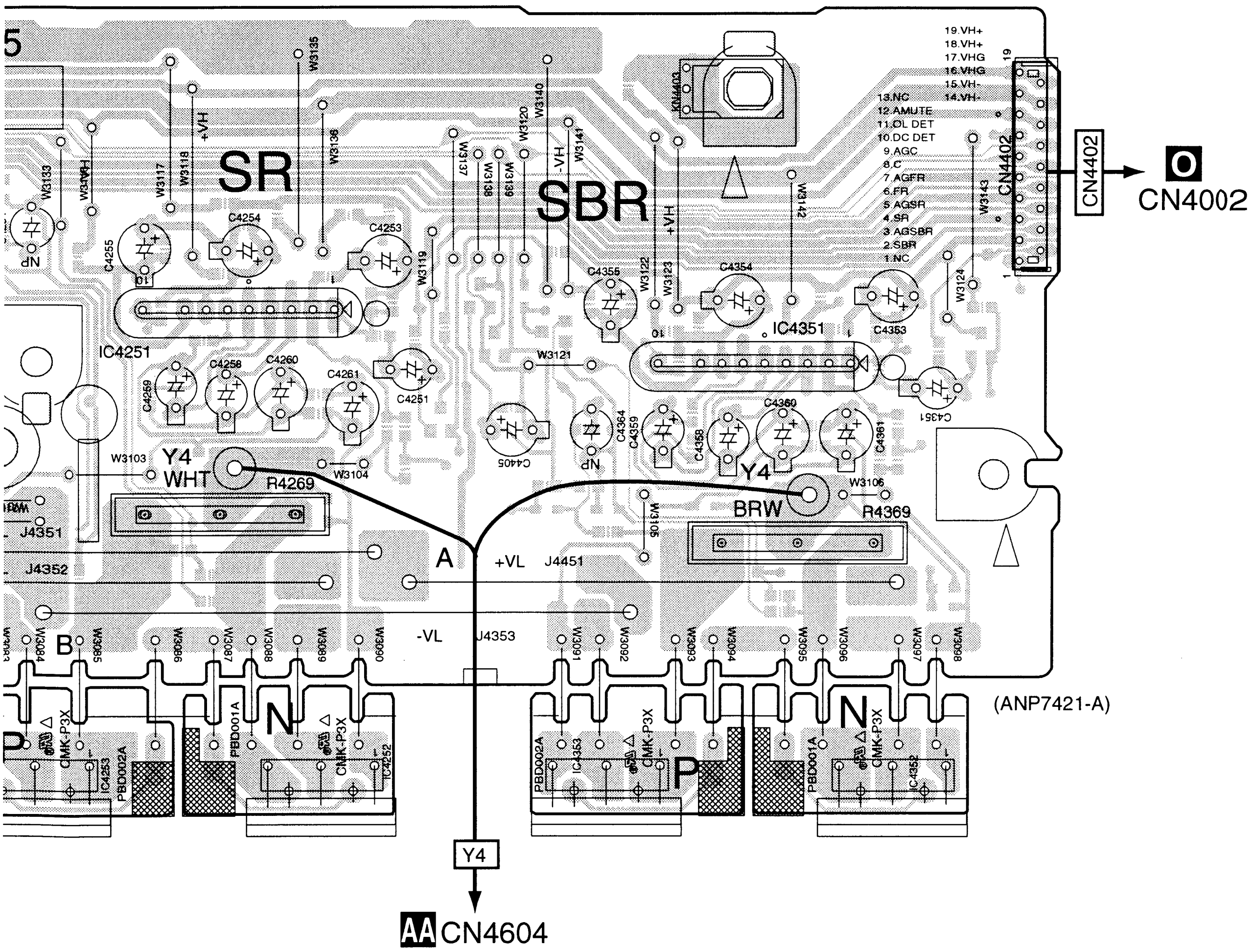
Y POWER AMP-R ASSY


POWER AMP-R ASS'Y
AWX7985
FR
CN4454
Z
CN4453
CN4454
10 C
9.AGC
8.AMUTE
7.CG1
6.OL DET
5.DC DET
4.CS
3.CS
2.CS
1.CG2
W3099
W3107
W3108
W3109
W3110
W3125
W3126
W3127
W3128
W3129
W3130
W3131
W3111
-VH
+VH
C4153
C4154
C4155
C4151
C4164
IC4151
C4159
C4158
C4160
C4161
W3112
W3113
C4404
C4403
IC4251
W3114
W3115
W3133
C4264
C4255
C4259
W3103
BLK
Y6
RED
Y6
Y1
GRN
W3100
W3101
R4169
B
+VL
J4251
A
A
+VL J4351
+VL J4352
-VL
J4141
Y6
BLU
B
W3071
W3072
W3073
W3074
W3075
W3076
W3077
W3078
W3079
W3080
W3081
W3082
W3083
W3084
W3085
CMK-P3X
N
P
N
P
PBD001A
PBD002A
IC4452
IC4153
IC4152
IC4253
Y1
Y6
AA CN4602
AA CN4606

IC4151

IC4452 IC4153 IC4152 IC4253

SIDE A


5
SR
SBR
19.VH+
18.VH+
17.VHG
16.VHG
15.VH-
14.VH-
13.NC
12.AMUTE
11.OL DET
10.DC DET
9.AGC
8.C
7.AGFR
6.FR
5.AGSR
4.SR
3.AGSBR
2.SBR
1.NC
CN4402
CN4402
O CN4002
KN4403
W3133
W3134
W3117
W3118
+VH
W3135
W3136
W3137
W3138
W3139
W3120
W3140
-VH
W3141
W3142
W3143
W3119
W3122
W3123
+VH
W3124
C4255
C4254
C4253
C4355
C4354
C4353
IC4251
IC4351
C4259
C4258
C4260
C4261
C4251
W3121
C4405
C4364
C4359
C4358
C4360
C4361
C4351
NP
W3103
Y4
WHT
R4269
W3104
Y4
BRW
W3106
R4369
W3105
J4351
J4352
A
+VL
J4451
-VL
J4353
B
W3084
W3085
W3086
W3087
W3088
W3089
W3090
W3091
W3092
W3093
W3094
W3095
W3096
W3097
W3098
P
N
P
N
CMK-P3X
PBD002A
PBD001A
IC4253
IC4252
IC4353
IC4352
(ANP7421-A)
Y4
AA CN4604

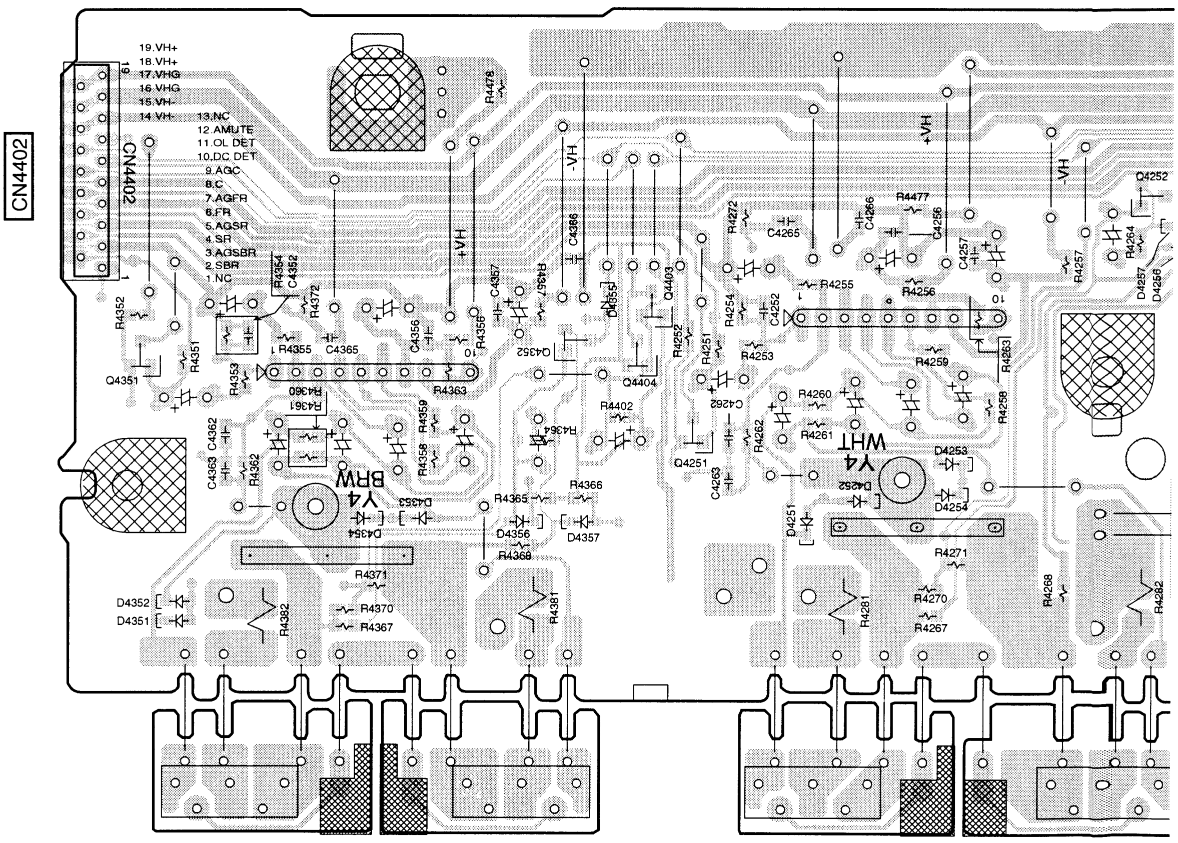
IC4251 IC4351

IC4253 IC4252 IC4353 IC4352

A

SIDE B

Y POWER AMP-R ASSY


CN4402
19.VH+
18.VH+
17.VHG
16.VHG
15.VH-
14.VH-
13.NC
12.AMUTE
11.OL DET
10.DC DET
9.AGC
8.C
7.AGFR
6.FR
5.AGSR
4.SR
3.AGSBR
2.SBR
1.NC
+VH
-VH
R4478
R4352
R4351
Q4351
R4353
R4354
C4352
R4372
R4355
C4365
C4356
R4356
C4357
R4357
C4366
Q4352
Q4403
Q4404
R4360
R4361
R4363
R4359
R4358
R4364
C4362
C4363
R4362
Y4
BRW
D4353
D4354
D4355
D4356
D4357
R4365
R4366
R4368
R4371
R4370
R4367
D4352
D4351
R4382
R4381
R4402
R4272
C4265
C4266
R4477
C4256
C4257
R4255
R4256
R4254
C4252
R4252
R4251
R4253
R4259
R4263
R4258
R4260
R4261
C4262
R4262
Q4251
C4263
Y4
WHT
D4252
D4253
D4254
D4251
R4271
R4270
R4267
R4281
R4268
R4282
Q4252
R4257
R4264
D4257
D4256

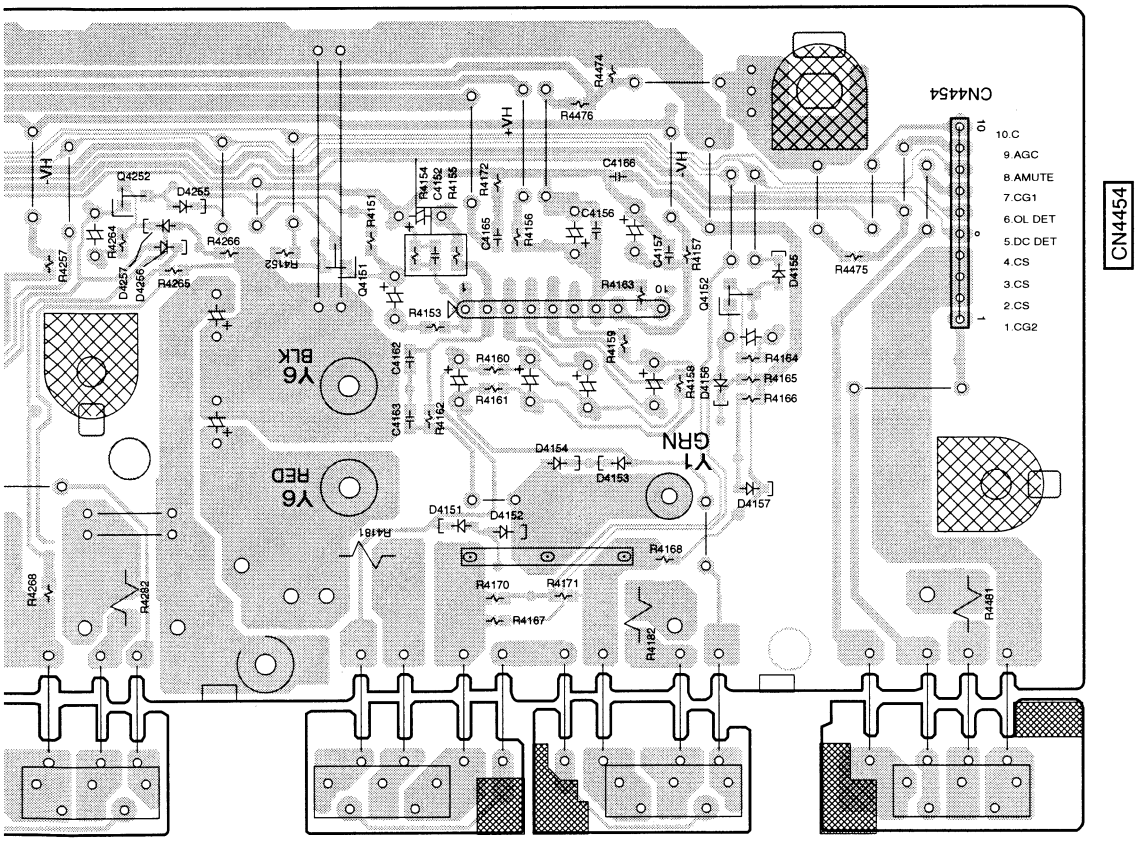
Q4351 Q4403 Q4252

Q4352 Q4404

Q4251

B C D E F

SIDE B

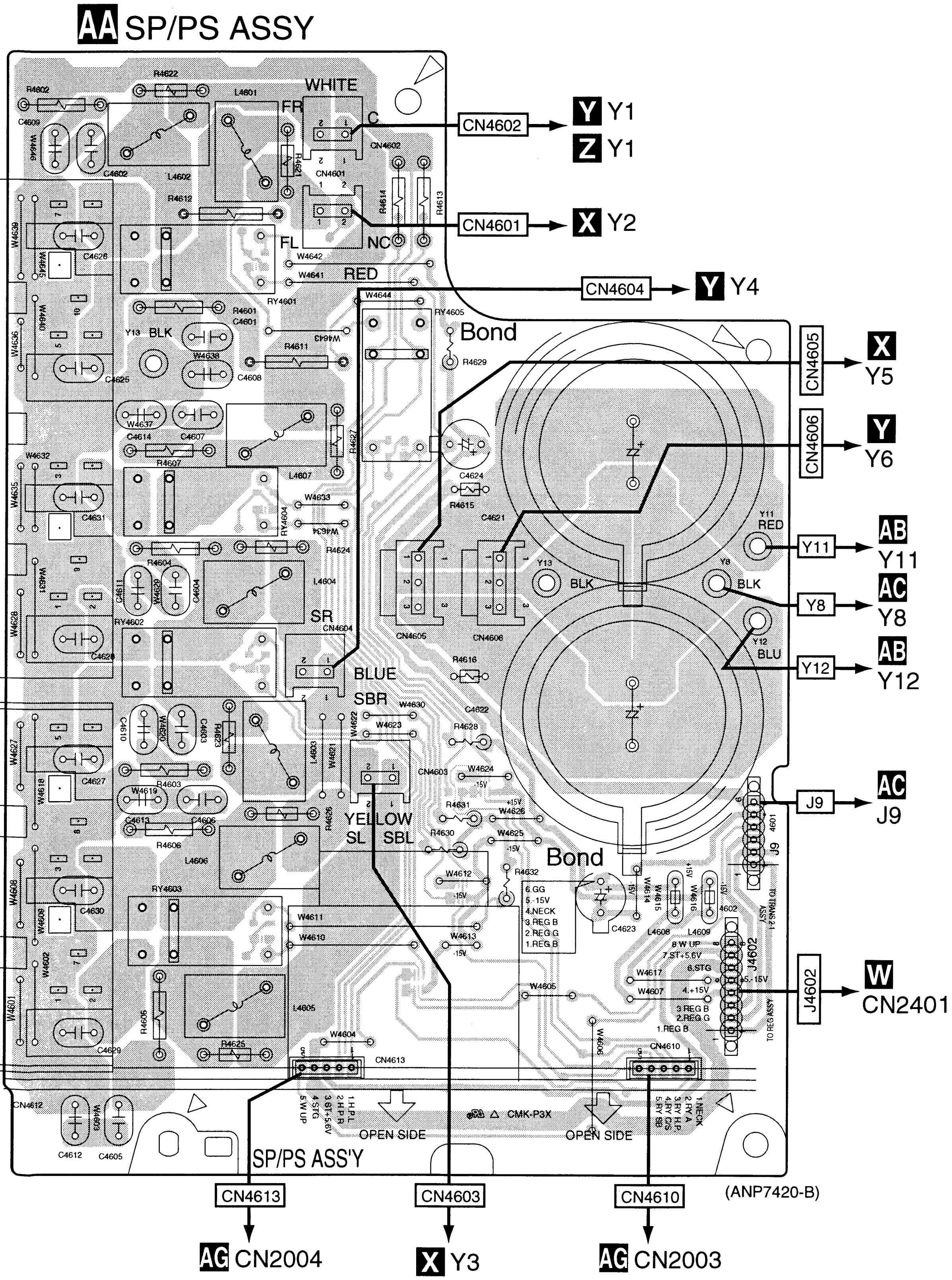

CN4454
10.C
9.AGC
8.AMUTE
7.CG1
6.OL DET
5.DC DET
4.CS
3.CS
2.CS
1.CG2
R4474
R4476
+VH
-VH
Q4252
D4265
R4264
D4257
D4256
R4266
R4265
R4257
R4152
R4151
Q4151
R4154
C4152
R4155
R4172
C4165
R4156
C4166
C4156
C4157
R4157
Q4152
D4155
R4475
R4163
R4153
C4162
C4163
R4162
R4160
R4161
R4159
R4158
D4156
R4164
R4165
R4166
Y6 BLK
Y6 RED
Y1 GRN
D4154
D4153
D4151
D4152
D4157
R4181
R4168
R4170
R4171
R4167
R4182
R4268
R4282
R4481

(ANP7421-A)

Q4252 Q4151 Q4152

4.16 SP/PS ASSY

SIDE A


AA SP/PS ASSY
WHITE
FR
C
CN4602
Y Y1
Z Y1
CN4601
NC
X Y2
FL
RED
CN4604
Y Y4
Bond
CN4605
X Y5
CN4606
Y Y6
Y11 RED
Y11
AB Y11
Y13 BLK
Y8 BLK
Y8
AC Y8
Y12 BLU
Y12
AB Y12
SR
BLUE
SBR
YELLOW
SL SBL
Bond
6.GG
5.-15V
4.NECK
3.REG B
2.REG G
1.REG B
J9
AC J9
J4602
8.W UP
7.ST+5.6V
6.STG
5.-15V
4.+15V
3.REG B
2.REG G
1.REG B
W CN2401
TO TRANS 2-1 ASSY
TO REG ASSY
CN4613
1.H.P.L
2.H.P.R
3.BT+5.6V
4.STG
5.W UP
CN4610
1.NECK
2.RY A
3.RY H.P.
4.RY C/S
5.RY SB
OPEN SIDE
OPEN SIDE
CMK-P3X
SP/PS ASS'Y
(ANP7420-B)
CN4613
AG CN2004
CN4603
X Y3
CN4610
AG CN2003
R4602
R4622
L4601
C4609
W4646
C4602
L4602
R4612
R4621
R4614
R4613
W4642
W4641
W4639
W4645
C4626
W4640
W4636
C4625
R4601
C4601
RY4601
W4643
W4644
RY4605
R4611
W4638
C4608
R4629
W4637
C4614
C4607
R4607
R4627
L4607
C4624
R4615
C4621
W4632
W4635
C4631
W4633
RY4604
W4634
R4604
R4624
C4611
W4629
C4604
L4604
W4631
W4628
RY4602
C4628
CN4604
CN4605
CN4606
R4616
W4630
W4623
C4622
R4628
C4610
W4620
C4603
R4623
W4627
C4627
W4618
R4603
W4619
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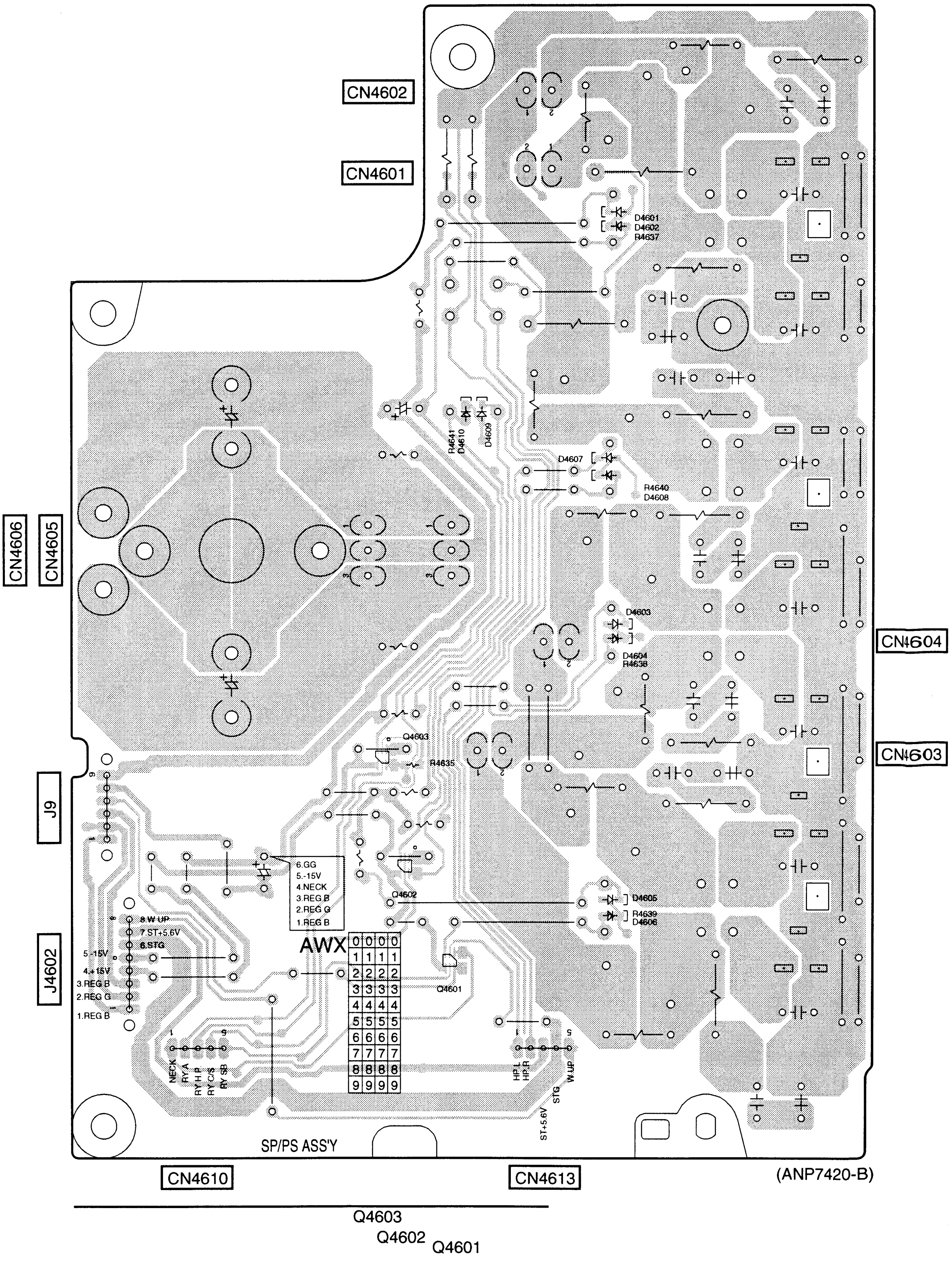
L4606
W4622
W4621
L4603
R4626
CN4603
W4624
R4631
W4626
R4630
W4625
W4612
R4632
C4623
W4614
W4615
W4616
4601
4602
L4608
L4609
W4617
W4607
W4608
W4609
C4630
RY4603
W4611
W4610
W4613
W4605
W4602
W4601
R4605
L4605
R4625
C4629
W4604
W4606
CN4612
W4603
C4612
C4605

SIDE B

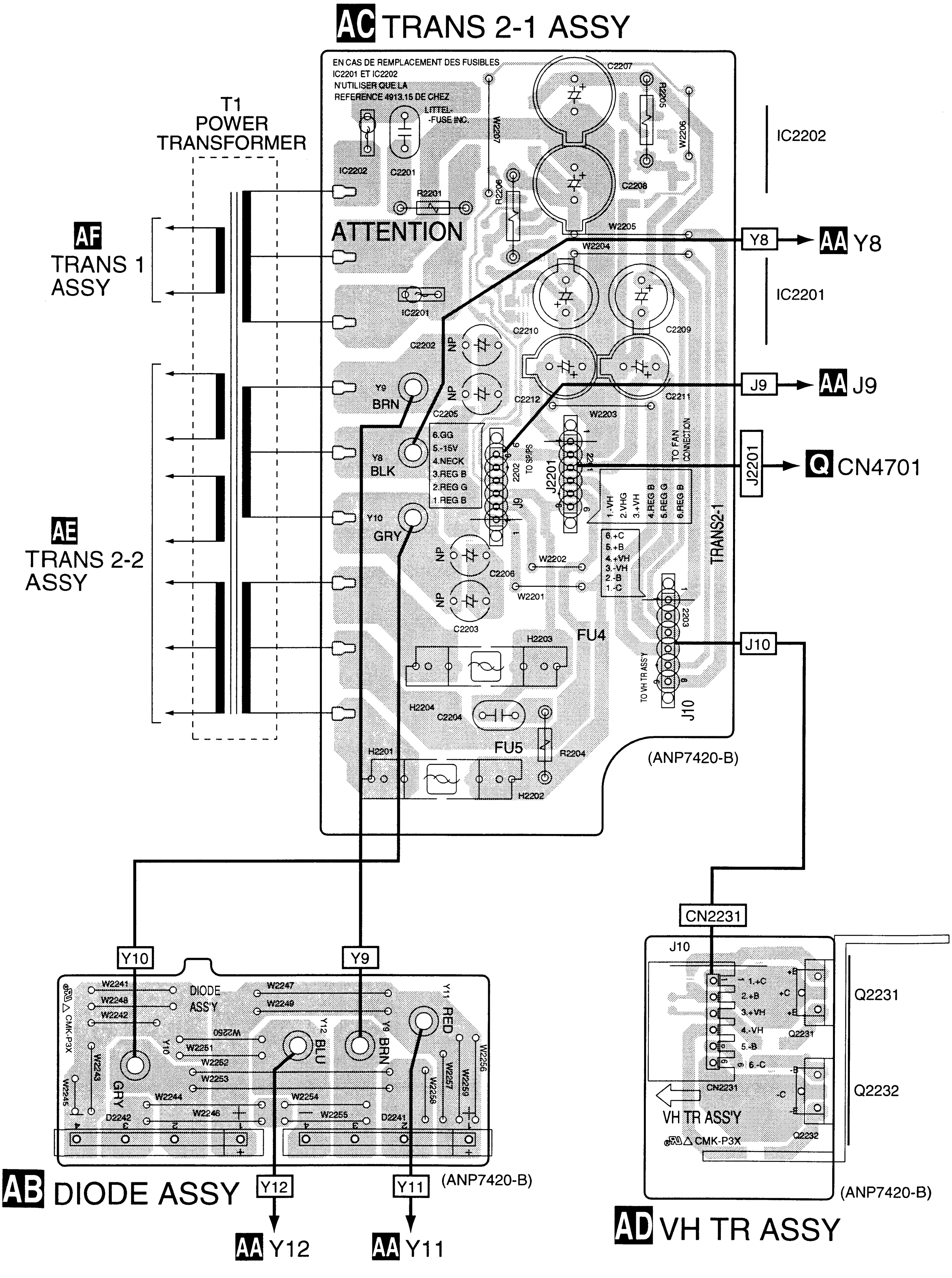
AA SP/PS ASSY


CN4602
CN4601
D4601
D4602
R4637
R4641
D4610
D4609
D4607
R4640
D4608
CN4606
CN4605
D4603
D4604
R4638
CN4604
Q4603
R4635
CN4603
J9
6.GG
5.-15V
4.NECK
3.REG B
2.REG G
1.REG B
Q4602
D4605
R4639
D4606
J4602
8.W UP
7.ST+5.6V
6.STG
5.-15V
4.+15V
3.REG B
2.REG G
1.REG B
AWX
Q4601
NECK
RY A
RY H.P
RY C/S
RY SB
HP L
HP R
STG
W UP
ST+5.6V
SP/PS ASS'Y
CN4610
CN4613
(ANP7420-B)
Q4603
Q4602
Q4601

0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

4.17 DIODE, TRANS 2-1 and VH TR ASSYS

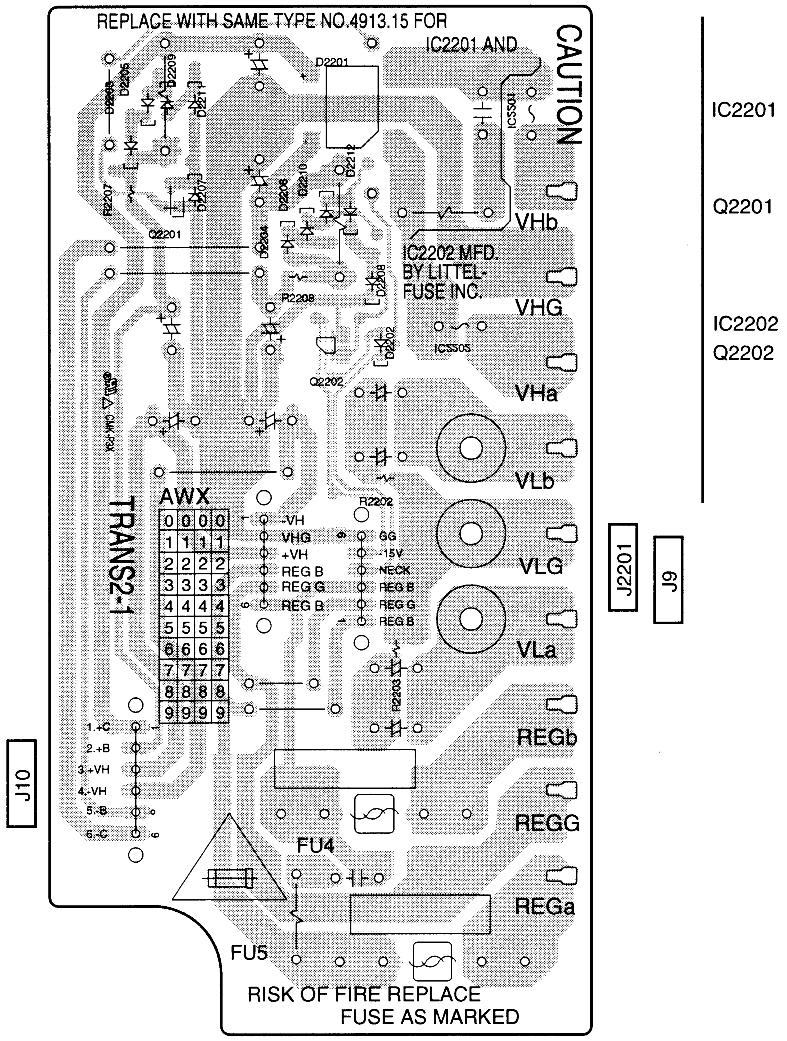
SIDE A


AC TRANS 2-1 ASSY
EN CAS DE REMPLACEMENT DES FUSIBLES IC2201 ET IC2202 N'UTILISER QUE LA REFERENCE 4913.15 DE CHEZ LITTEL-FUSE INC.
ATTENTION
T1 POWER TRANSFORMER
AF TRANS 1 ASSY
AE TRANS 2-2 ASSY
IC2202
IC2201
C2201
C2202
C2203
C2204
C2205
C2206
C2207
C2208
C2209
C2210
C2211
C2212
R2201
R2204
R2205
R2206
W2201
W2202
W2203
W2204
W2205
W2206
W2207
H2201
H2202
H2203
H2204
FU4
FU5
NP
Y8 BLK
Y9 BRN
Y10 GRY
6.GG
5.-15V
4.NECK
3.REG B
2.REG G
1.REG B
TO SP/PS
J9
J2201
TO FAN CONNECTION
1.-VH
2.VHG
3.+VH
4.REG B
5.REG G
6.REG B
6.+C
5.+B
4.+VH
3.-VH
2.-B
1.-C
2203
TO VH TR ASSY
J10
TRANS2-1
Y8
AA Y8
J9
AA J9
J2201
Q CN4701
J10
(ANP7420-B)
CN2231
J10
1.+C
2.+B
3.+VH
4.-VH
5.-B
6.-C
Q2231
Q2232
VH TR ASS'Y
CMK-P3X
(ANP7420-B)
AD VH TR ASSY
Y10
Y9
DIODE ASS'Y
CMK-P3X
W2241
W2242
W2243
W2244
W2245
W2246
W2247
W2248
W2249
W2250
W2251
W2252
W2253
W2254
W2255
W2256
W2257
W2258
W2259
D2241
D2242
Y10
GRY
Y12 BLU
Y9 BRN
Y11 RED
(ANP7420-B)
AB DIODE ASSY
Y12
Y11
AA Y12
AA Y11

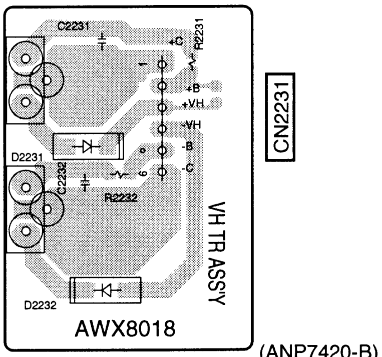
AB AC AD

SIDE B

AC TRANS 2-1 ASSY

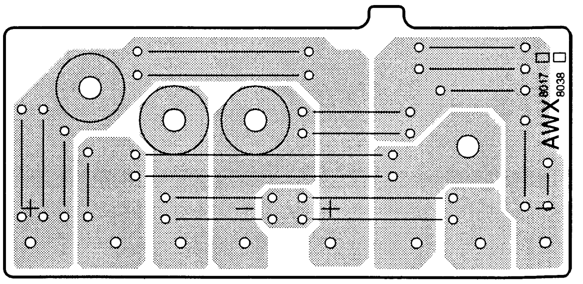

REPLACE WITH SAME TYPE NO.4913.15 FOR
IC2201 AND
CAUTION
IC2201
Q2201
IC2202
Q2202
IC2202 MFD.
BY LITTEL-
FUSE INC.
D2201
D2202
D2203
D2204
D2205
D2206
D2207
D2208
D2209
D2210
D2211
D2212
R2207
R2208
R2202
R2203
Q2201
Q2202
IC5504
IC5505
VHb
VHG
VHa
VLb
VLG
VLa
REGb
REGG
REGa
J2201
J9
J10
AWX
TRANS2-1
-VH
VHG
+VH
REG B
REG G
REG B
GG
-15V
NECK
REG B
REG G
REG B
1.+C
2.+B
3.+VH
4.-VH
5.-B
6.-C
FU4
FU5
RISK OF FIRE REPLACE
FUSE AS MARKED

(ANP7420-B)


C2231
R2231
+C
+B
+VH
-VH
-B
-C
D2231
C2232
R2232
D2232
VH TR ASSY
AWX8018
CN2231

(ANP7420-B)

AD VH TR ASSY

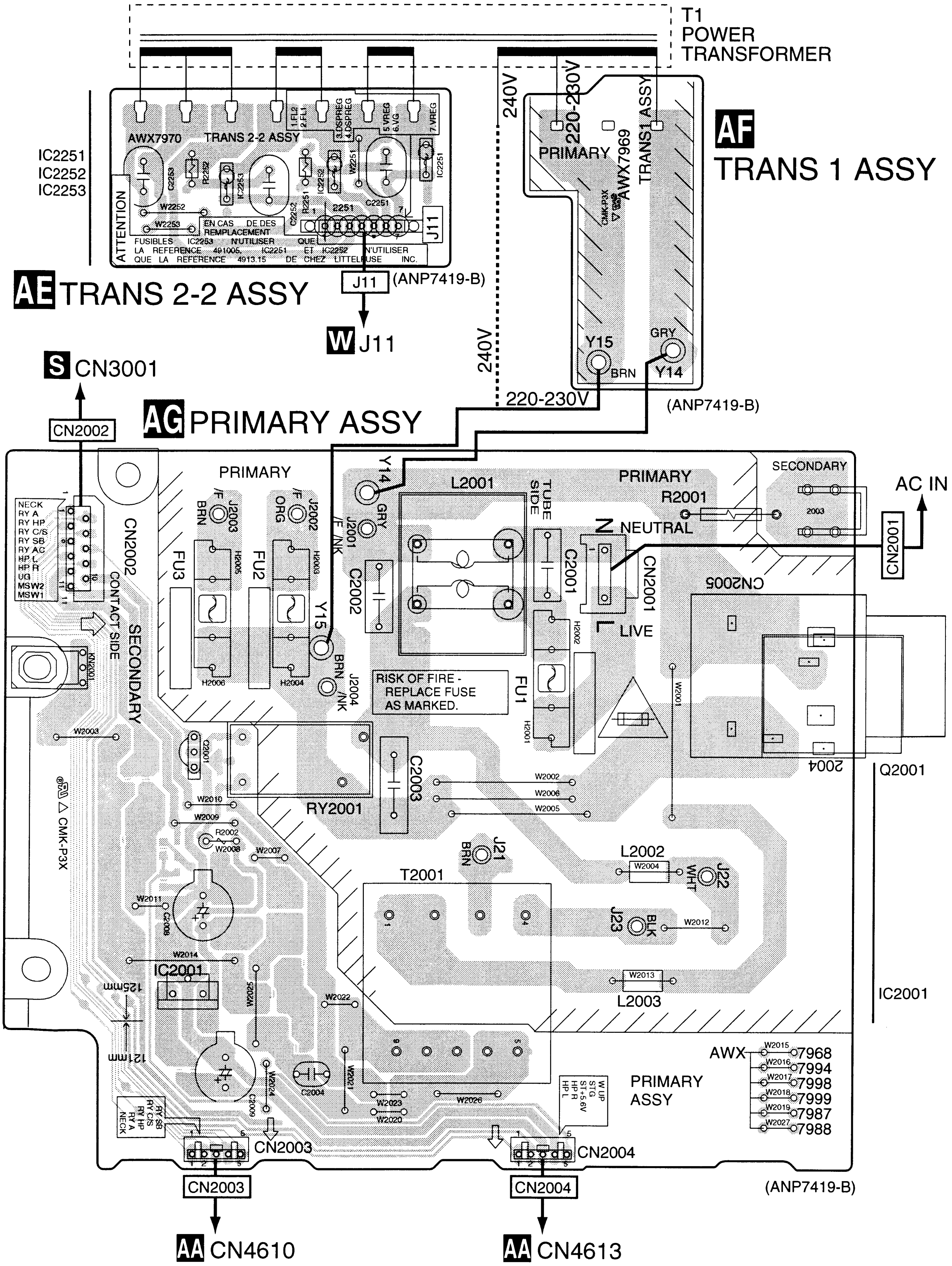

AWX8017
8038

(ANP7420-B)

AB DIODE ASSY

4.18 TRANS 2-1, TRANS 1 and PRIMARY ASSYS

SIDE A


T1
POWER
TRANSFORMER
AWX7970
TRANS 2-2 ASSY
IC2251
IC2252
IC2253
ATTENTION
EN CAS DE DES REMPLACEMENT FUSIBLES IC2253 N'UTILISER QUE LA REFERENCE 491005. IC2251 ET IC2252 N'UTILISER QUE LA REFERENCE 4913.15 DE CHEZ LITTELFUSE INC.
J11
(ANP7419-B)
AE TRANS 2-2 ASSY
W J11
240V
220-230V
PRIMARY
AWX7969
TRANS1 ASSY
AF
TRANS 1 ASSY
Y15
BRN
GRY
Y14
(ANP7419-B)
S CN3001
CN2002
AG PRIMARY ASSY
NECK
RY A
RY HP
RY C/S
RY SB
RY AC
HP L
HP R
UG
MSW2
MSW1
CN2002
CONTACT SIDE
SECONDARY
PRIMARY
J2003 BRN
J2002 ORG
J2001 GRY
FU3
FU2
FU1
L2001
TUBE SIDE
C2001
C2002
C2003
N NEUTRAL
R2001
CN2001
L LIVE
SECONDARY
AC IN
CN2001
CN2005
RISK OF FIRE - REPLACE FUSE AS MARKED.
RY2001
Q2001
2004
CMK-P3X
T2001
J21 BRN
L2002
J22 WHT
J23 BLK
L2003
IC2001
IC2001
125mm
121mm
AWX
7968
7994
7998
7999
7987
7988
PRIMARY ASSY
CN2003
CN2004
(ANP7419-B)
CN2003
CN2004
AA CN4610
AA CN4613

AE AF AG AH

SIDE B

● Line Voltage Selection

Line Voltage can be changed by the following modification:

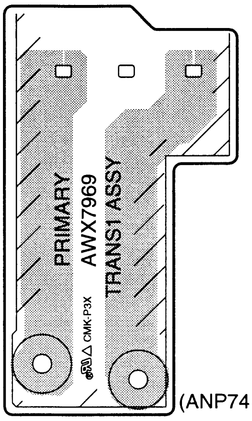
1. Disconnect the AC power cord.
2. Remove the cover.
3. Change the connection wire from TRANS 1 ASSY to PRIMARY ASSY (Terminal No. Y15) as follows.

Voltage	Terminal No.
220-230V	Y15 of TRANS 1 ASSY
240V	240V terminal of power transformer

4. Stick a line voltage label on the rear panel.

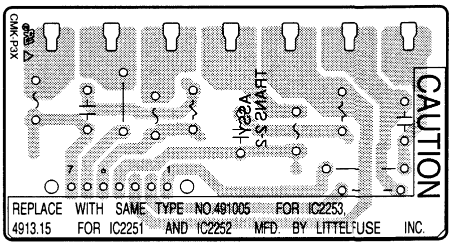
Description	Part No.
220V label	AAX-193
240V label	AAX-192

AF TRANS 1 ASSY


PRIMARY
AWX7969
TRANS1 ASSY
CMK-P3X

(ANP7419-B)

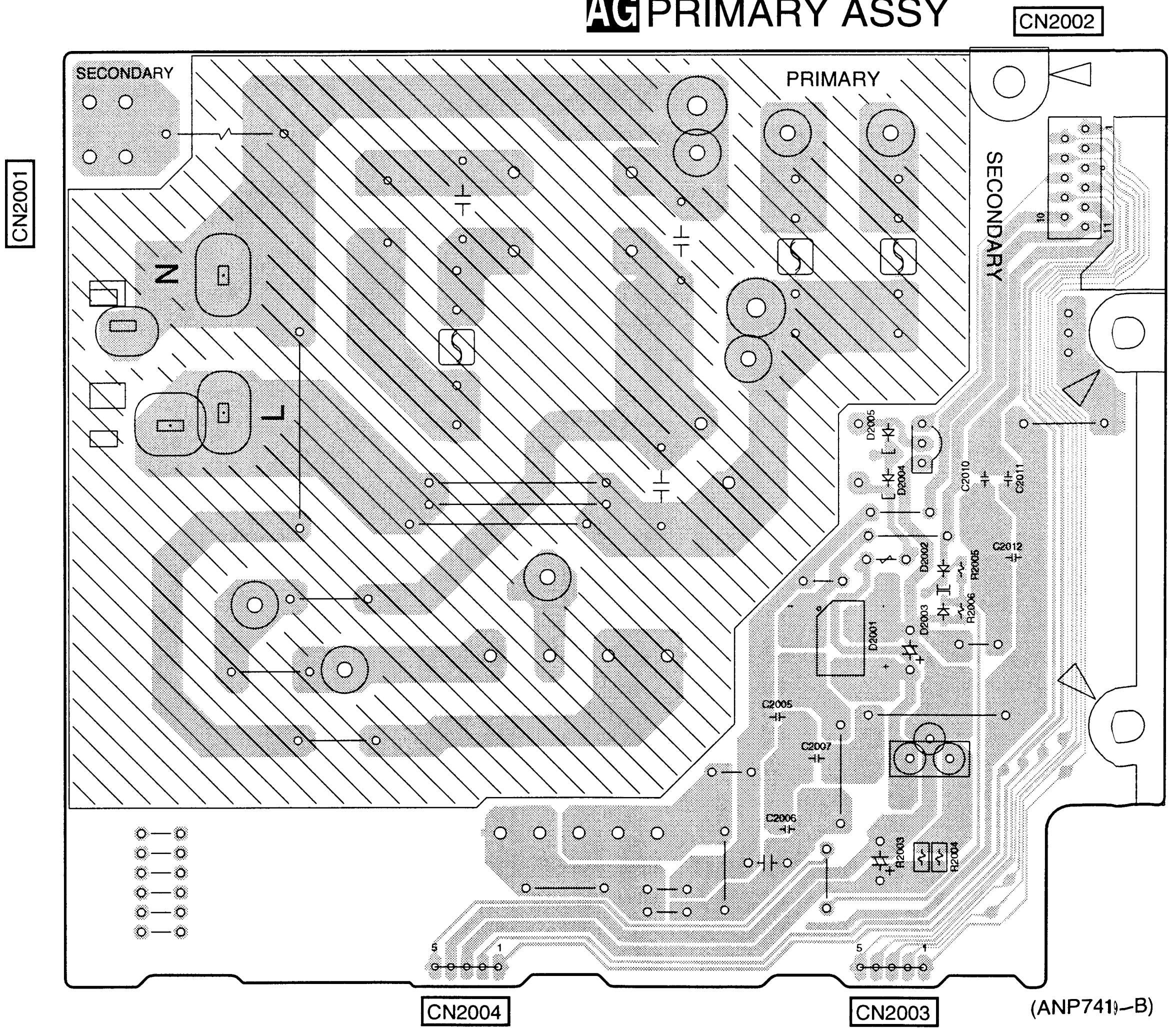
AE TRANS 2-2 ASSY


CMK-P3X
TRANS 2-2 ASSY
CAUTION
7
1

REPLACE WITH SAME TYPE NO.491005 FOR IC2253, 4913.15 FOR IC2251 AND IC2252 MFD. BY LITTELFUSE INC.

(ANP7419-B)

AG PRIMARY ASSY


CN2002
SECONDARY
PRIMARY
CN2001
SECONDARY
1
10
11
N
L
D2005
D2004
C2010
C2011
C2012
D2002
R2005
R2006
D2003
D2001
C2005
C2007
C2006
R2003
R2004
5
1
5
1
CN2004
CN2003

(ANP7419–B)

5. PCB PARTS LIST

NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*

● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

● *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω → 56 x 10^1 → 561 .... RD1/4PU$\boxed{5}\boxed{6}\boxed{1}$J
47k Ω → 47 x 10^3 → 473 .... RD1/4PU$\boxed{4}\boxed{7}\boxed{3}$J
0.5 Ω → R50 .... RN2H$\boxed{R}\boxed{5}\boxed{0}$K
1 Ω → 1R0 .... RS1P$\boxed{1}\boxed{R}\boxed{0}$K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω → 562 x 10^1 → 5621 .... RN1/4PC$\boxed{5}\boxed{6}\boxed{2}\boxed{1}$F

• LIST OF WHOLE PCB ASSEMBLIES

Mark	Symbol and Description	VSX-D2011-S/ HYXJI	VSX-D1011-S/ HYXJI	VSX-D1011-K/ HYXJI
	1..FM/AM TUNER MODULE	AXQ7232	AXQ7232	AXQ7232
NSP	1..REGULATOR ASSY	AWK7738	AWK7738	AWK7738
	2..7.1 CH I/O ASSY	AWX7973	AWX7973	AWX7973
	2..POWER AMP IN ASSY	AWX7982	AWX7982	AWX7982
	2..FAN DRIVE ASSY	AWX8135	AWX8135	AWX8135
	2..REGULATOR ASSY	AWX8020	AWX8020	AWX8020
	2..TRANS 2-2 ASSY	AWX7970	AWX7970	AWX7970
	2..TRANS 1 ASSY	AWX7969	AWX7969	AWX7969
	2..PRIMARY ASSY	AWX7998	AWX7998	AWX7998
NSP	1..COMPLEX ASSY	AWK7755	AWK7757	AWK7757
	2..V-AUDIO IN ASSY	AWX7991	AWX7991	AWX7991
	2..FRONT IN ASSY	AWX8186	AWX8186	AWX8186
	2..OPTICAL IN ASSY	AWX7978	AWX7978	AWX7978
	2..INPUT CONNECT ASSY	AWX8041	AWX8041	AWX8041
	2..VOLUME ASSY	AWX7971	AWX7971	AWX7971
	2..MULTI JOG ASSY	AWX8015	AWX8015	AWX8015
	2..HEADPHONE ASSY	AWX7980	AWX7980	AWX7980
	2..SP/PS ASSY	AWX8039	AWX8040	AWX8040
	2..DIODE ASSY	AWX8017	AWX8038	AWX8038
	2..TRANS 2-1 ASSY	AWX7979	AWX7979	AWX7979
	2..VH TR ASSY	AWX8018	AWX8018	AWX8018
	2..MECHA SW ASSY	AWX7995	AWX7995	AWX7995
NSP	1..MAIN ASSY	AWK7737	AWK7747	AWK7747
	2..COAXIAL IN ASSY	AWX7965	AWX8013	AWX8013
	2..VIDEO ASSY	AWX8001	AWX8002	AWX8002
	2..COMPONENT ASSY	AWX7963	Not used	Not used
	2..MAIN CONTROL ASSY	AWX7997	AWX8010	AWX8010
	2..MIC & F.OPT IN ASSY	AWX7981	Not used	Not used
	2..MIC AMP ASSY	AWX8004	Not used	Not used
	2..DSP CONNECTION ASSY	AWX8024	AWX8024	AWX8024
	2..FAN CONNECTION ASSY	AWX8005	AWX8005	AWX8005
NSP	1..POWER AMP ASSY	AWK7763	AWK7743	AWK7743
	2..DISPLAY ASSY	AWX8147	AWX8011	AWX8011
	2..POWER AMP-L ASSY	AWX7984	AWX7984	AWX7984
	2..POWER AMP-R ASSY	AWX7985	AWX7985	AWX7985
	2..POWER AMP-C ASSY	AWX7986	AWX7986	AWX7986
	1..DSP ASSY	AWX8016	AWX8016	AWX8016

• CONTRAST OF PCB ASSEMBLIES

G COAXIAL IN ASSY

AWX7965 and AWX8013 are constructed the same except for the following :

Mark	Symbol and Description	AWX7965	AWX8013
	IC1681	PCM2902EG	Not used
	IC1682	TC7SET08F	Not used
	C1680, C1697	CKSRYB103K50	Not used
	C1681	CEAT470M16	Not used
	C1683-C1686, C1689, C1690, C1698	CKSRYB104K16	Not used
	C1687	CCSRCH220J50	Not used
	C1688	CCSRCH180J50	Not used
	R1681	RS1/16S152J	Not used
	R1682, R1683	RS1/16S220J	Not used
	R1686	RS1/16S105J	Not used
	R1687	RS1/16S470J	Not used
	R1689	RS1/16S222J	Not used
	R1690	RS1/16S101J	Not used
	X1681 CRYSTAL RESONATOR (12.0MHz)	ASS7047	Not used
	JA1681 USB CONNECTOR	DKN1237	Not used

H VIDEO ASSY

AWX8001 and AWX8002 are constructed the same except for the following :

Mark	Symbol and Description	AWX8001	AWX8002
	IC903	TC4W53FU	Not used
	IC933	BU4053BCF	Not used
	Q901	2SA933S	Not used
	C918	CEAT101M16	Not used
	C915, C916, C921, C957, C958	CKSRYB473K50	Not used
	C919	CCSRCH150J50	Not used
	C920	CEAT470M25	Not used
	C922	CCSRCH181J50	Not used
	R914	RS1/16S101J	Not used
	R916	RS1/16S104J	Not used
	R917	RS1/16S153J	Not used
	R918	RS1/16S103J	Not used
	R919	RS1/16S101J	Not used
	R920	RD1/2VM221J	Not used
	R921, R955, R956, R958	Not used	RS1/16S0R0J
	R922	RS1/16S750J	Not used
	R926, R959, R960, R961	RS1/16S102J	Not used
	R954	RS1/16S0R0J	Not used
	JA905 1P PIN JACK	VKB1122	Not used

K MAIN CONTROL ASSY

AWX7997 and AWX8010 are constructed the same except for the following :

Mark	Symbol and Description	AWX7997	AWX8010
	Q101, Q102	2SC3326	Not used
	Q103	DTA124EK	Not used
	C139, C140	CCSRCH470J50	Not used
	R135, R136	RS1/16S912J	RS1/16S0R0J
	R137, R138	RS1/16S102J	Not used
	R141, R142	RS1/16S472J	Not used
	R143, R524, R525	RS1/16S473J	Not used
	R523, R526	Not used	RS1/16S473J

S DISPLAY ASSY

AWX8147 and AWX8011 are constructed the same except for the following :

Mark	Symbol and Description	AWX8147	AWX8011
	R3099	Not used	RS1/16S473J
	4P CABLE HOLDER	51048-0400	Not used
	J3008 JUMPER WIRE 04P	D20PYY0415E	Not used

AA SP/PS ASSY

AWX8039 and AWX8040 are constructed the same except for the following :

Mark	Symbol and Description	AWX8039	AWX8040
	L4608, L4609	RTF1167	Not used
	RY4601-RY4605	ASR7014	ASR7026
⚠	C4621, C4622	ACH7169	ACH7170
	C4623	CEAT101M50	Not used
	R4628-R4632	RD1/2VM331J	RD1/2VM471J

AB DIODE ASSY

AWX8017 and AWX8038 are constructed the same except for the following :

Mark	Symbol and Description	AWX8017	AWX8038
⚠	D2241, D2242	LN6SB60-4003	D5SBA20(B)

• PARTS LIST FOR VSX-D2011-S

REGULATOR ASSY

OTHERS

Mark	No.	Description	Part No.
	Y15	BOARD IN JUMPER	ADX7418
	Y14	BOARD IN JUMPER	ADX7419
	J11	JUMPER WIRE 7P	D20PYY0745E

COMPLEX ASSY

OTHERS

Mark	No.	Description	Part No.
	Y8	BOARD IN JUMPER	ADX7284
	Y9	BOARD IN JUMPER	ADX7285
	Y10	BOARD IN JUMPER	ADX7286
	Y11	BOARD IN JUMPER	ADX7287
	Y12	BOARD IN JUMPER	ADX7288
	J9	JUMPER WIRE 6P	D20PYY0615E

A FM/AM TUNER MODULE

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC201		BA1451F
	IC202		LC72131MD
	Q201, Q204, Q205, Q601		2SC2412K
	Q202		DTA124ES
	Q203, Q602		DTC124EK
	D201		1SS133
	D601		HVU187
	D202		MTZJ5.1C
	D101		UDZS6.8B

COILS AND FILTERS

Mark	No.	Description	Part No.
	L201	FL COIL	ATE7003
	F202	FM CERAMIC FILTER	ATF-107
	F201	FM CERAMIC FILTER	ATF-119
	F601	ANTIBIRDY FILTER	ATF7025
	F203	AM CERAMIC FILTER	ATF7026
	L602		LAU2R2J
	L601		LCTA270J2520

CAPACITORS

Mark	No.	Description	Part No.
	C605		CCSQCH680J50
	C212, C213, C226, C233–C235		CCSRCH101J50
	C240, C614		CCSRCH101J50
	C206		CCSRCH120J50
	C231, C232		CCSRCH150J50
	C223		CEAT100M50
	C229		CEAT101M10
	C224		CEAT1R0M50
	C227		CEAT220M25
	C241		CEAT2R2M50
	C243		CEAT330M16
	C228		CEAT3R3M50
	C237		CEAT470M10
	C211		CEJQ1R0M50
	C210		CEJQ470M16
	C103, C104, C204, C238, C609		CKSRYB102K50
	C102, C208, C216, C217, C220		CKSRYB103K50
	C239, C242, C604, C610, C615		CKSRYB103K50
	C225		CKSRYB153K50
	C607, C608		CKSRYB182K50
	C201, C205, C214, C230, C236		CKSRYB223K50
	C244, C611		CKSRYB223K50
	C221		CKSRYB224K10
	C603		CKSRYB392K50
	C215		CKSRYB471K50

Mark	No.	Description	Part No.
	C202, C222		CKSRYB473K16
	C606		CKSRYB561K50

RESISTORS

	R211		RD1/4PU221J
	R221		RD1/4PU222J
	R233		RD1/4PU391J
	R103, R104		RS1/10S221J
	Other Resistors		RS1/16S###J

OTHERS

	CN201	13P FFC CONNECTOR	52044-1345
	BN201	2P TERMINAL WITH PAL	AKA7002
		SHIELD CASE T	ANK7072
		SHIELD CASE B	ANK7073
	X201	CRYSTAL RESONATOR (7.2MHz)	ASS1093
	FM FRONTEND		AXF7005
	AM RF TUNING BLOCK		AXX7072

B 7.1 CH I/O ASSY

SEMICONDUCTORS

	IC1301–IC1304		UPC4570G2
	Q1351, Q1352, Q1361, Q1362		HN1C03F
	Q1371, Q1372, Q1381, Q1382		HN1C03F

CAPACITORS

	C1301–C1304, C1307, C1308		CCSRCH101J50
	C1311–C1314, C1317, C1318		CCSRCH101J50
	C1321–C1324, C1327, C1328		CCSRCH101J50
	C1331–C1334, C1337, C1338		CCSRCH101J50
	C1351, C1352, C1361, C1362		CCSRCH331J50
	C1371, C1372, C1381, C1382		CCSRCH331J50
	C1309, C1310, C1319, C1320		CEAT100M50
	C1329, C1330, C1339, C1340		CEAT100M50
	C1305, C1306, C1315, C1316		CEAT4R7M50
	C1325, C1326, C1335, C1336		CEAT4R7M50
	C1341–C1348, C1391–C1394		CKSRYB103K50

RESISTORS

	All Resistors		RS1/16S###J

OTHERS

	CN1301–CN1304	4P PIN JACK	AKB7015
	CN1306	5P SOCKET	AKP7066
	CN1307, CN1308	9P SOCKET	AKP7068

C V-AUDIO IN ASSY

CAPACITORS

	C1201–C1212		CCSRCH221J50
	C1213–C1215		CKSRYB103K50

RESISTORS

	All Resistors		RS1/16S###J

OTHERS

	CN1201–CN1203	4P PIN JACK	AKB7015
	CN1204	17P SOCKET	AKP7072

D FRONT IN ASSY

CAPACITORS

Mark	No.	Description	Part No.
	C1501, C1502		CCSRCH221J50
	C1505		CKSRYB102K50
	C1504, C1506		CKSRYB103K50
	C1503		CKSRYB472K50
	C1510		CKSRYB473K50

RESISTORS

	All Resistors		RS1/16S###J

OTHERS

	CN1501	7P FFC CONNECTOR	52044-0745
	JA1501	FRONT INPUT	AKX7016
	KN1501	EARTH METAL FITTING	VNF1084

E OPTICAL IN ASSY

COILS AND FILTERS

	F1701	CHIP BEAD	DTF1064

CAPACITORS

	C1706		CEAT470M16
	C1701–C1705		CKSRYF104Z16

RESISTORS

	All Resistors		RS1/16S###J

OTHERS

	CN1701	9P FFC CONNECTOR	52045-0945
	JA1701, JA1702	OPTICAL LINK IN	GP1FA502RZ
	JA1703, JA1704	OPTICAL LINK OUT	GP1FA502TZ

F INPUT CONNECT ASSY

SEMICONDUCTORS

	IC1451		UPC4570G2

CAPACITORS

	C1451, C1452		CEAT100M50
	C1454, C1455		CKSRYB103K50
	C1453		CKSRYB472K50

RESISTORS

	All Resistors		RS1/16S###J

OTHERS

	CN1407	5P PLUG	AKP7055
	CN1406, CN1408	9P PLUG	AKP7057
	CN1405	17P PLUG	AKP7061
	CN1404	9P SOCKET	AKP7068
	CN1403	13P SOCKET	AKP7070
	CN1401	15P SOCKET	AKP7071

G COAXIAL IN ASSY

SEMICONDUCTORS

	IC1681		PCM2902EG
	IC1881		TC74HCU04AF
	IC1682		TC7SET08F

COILS AND FILTERS

	F1881	CHIP BEAD	DTF1064

CAPACITORS

	C1688		CCSRCH180J50
	C1687		CCSRCH220J50

Mark No.	Description	Part No.
C1885, C1886		CCSRCH470J50
C1887		CCSRCH471J50
C1681		CEAT470M16
C1890		CEAT470M25
C1680, C1697, C1857, C1858		CKSRYB103K50
C1883, C1884, C1888, C1897		CKSRYB103K50
C1683–C1686, C1689, C1690, C1698		CKSRYB104K16

RESISTORS

Mark No.	Description	Part No.
All Resistors		RS1/16S###J

OTHERS

Mark No.	Description	Part No.
CN1801	9P FFC CONNECTOR	52045-0945
JA1802	2P PIN JACK	AKB7131
CN1803	9P SOCKET	AKP7068
JA1681	USB CONNECTOR	DKN1237
CN1802	20P FFC CONNECTOR	VKN1196
X1681	CRYSTAL RESONATOR (12.0MHz)	ASS7047

H VIDEO ASSY

SEMICONDUCTORS

Mark No.	Description	Part No.
IC933		BU4053BCF
IC901, IC931		NJM2296M
IC932		NJM2596M
IC903		TC4W53FU
Q901, Q931, Q932		2SA933S
Q933		IMZ1A
D901		DAN202K

CAPACITORS

Mark No.	Description	Part No.
C981–C983		CCSRCH101J50
C919, C960, C963		CCSRCH150J50
C922–C925, C969–C974		CCSRCH181J50
C955		CCSRCH330J50
C901–C904, C932, C935, C938		CEAT101M10
C941		CEAT101M10
C905, C906, C918, C945, C946		CEAT101M16
C951, C952, C959		CEAT101M16
C933, C936, C939, C942		CEAT1R0M50
C920, C961, C964		CEAT470M25
C943		CKSRYB103K50
C931, C934, C937, C940, C944		CKSRYB104K16
C966–C968		CKSRYB104K16
C907, C908, C915, C916, C921		CKSRYB473K50
C947, C948, C953, C954		CKSRYB473K50
C957, C958, C962, C965		CKSRYB473K50

RESISTORS

Mark No.	Description	Part No.
R920, R966		RD1/2VM221J
R969		RD1/2VM471J
Other Resistors		RS1/16S###J

OTHERS

Mark No.	Description	Part No.
JA904	COMB. JACK (S+1P)	AKB7146
JA901–JA903	COMB. JACK (2S+2P)	AKB7147
CN901	15P SOCKET	AKP7071
JA905	1P PIN JACK	VKB1122

I COMPONENT ASSY

SEMICONDUCTORS

Mark No.	Description	Part No.
IC1051		PDC084A
IC1001		TC74HC4053AF
IC1002, IC1003		TK15450M
Q1051		DTC124EK
D1051, D1052		1SS355

COILS AND FILTERS

Mark No.	Description	Part No.
L1051, L1052		LCYA100J2520
L1053		LCYA330J2520

CAPACITORS

Mark No.	Description	Part No.
C1060		CCSRCH101J50
C1055		CCSRCH150J50
C1056		CCSRCH180J50
C1057, C1058		CCSRCH240J50
C1024–C1026, C1059		CCSRCH470J50
C1017, C1018, C1023, C1029		CCSRCK2R0C50
C1013, C1014, C1019, C1020		CEAT101M16
C1027, C1028, C1051, C1053, C1063		CEAT101M16
C1007, C1008, C1015, C1016		CKSRYB103K50
C1021, C1022		CKSRYB103K50
C1052, C1054, C1061, C1062		CKSRYB473K50

RESISTORS

Mark No.	Description	Part No.
All Resistors		RS1/16S###J

OTHERS

Mark No.	Description	Part No.
CN1001	9P SOCKET	AKP7068
JA1001–JA1003	3P PIN JACK	VKB1150
X1051	CRYSTAL RESONATOR (14.32MHz)	ASS1056

J MECHA SW ASSY

SWITCHES AND RELAYS

Mark No.	Description	Part No.
S2491		ASG1035

CAPACITORS

Mark No.	Description	Part No.
C2491, C2492		CKSRYB103K50

OTHERS

Mark No.	Description	Part No.
CN2491	3P JUMPER CONNECTOR	52147-0310

K MAIN CONTROL ASSY

SEMICONDUCTORS

Mark No.	Description	Part No.
IC651		BU1923F
IC502, IC503		BU4094BCF
IC501		PD5770C8
IC511		TC74VHC08FT
IC302		TC74VHCT244AFT
IC103		TC9163AF
IC104		TC9215AF
IC101		TC9274F-019
IC701–IC704		TC94A07F
IC102, IC711–IC714		UPC4570G2
Q651		2SA1037K
Q601		2SC1740S
Q653		2SC2412K
Q101, Q102		2SC3326
Q103, Q511		DTA124EK
Q501, Q652		DTC143EK

Mark	No.	Description	Part No.
	D501, D511, D521–D524		1SS355
	D821, D822, D831, D832		1SS355
	D601		UDZ11B

COILS AND FILTERS

Mark	No.	Description	Part No.
	L501		LCYA2R2J2520
	L651		LFCA2R2J
⚠	L891–L895	CHIP SOLID INDUCTOR	QTL1013

CAPACITORS

Mark	No.	Description	Part No.
	C508		ACH7132
	C719, C720, C739, C740		CCSRCH680J50
	C759, C760, C779, C780		CCSRCH680J50
	C113, C114, C125–C127		CCSRCH101J50
	C151–C153, C725–C727		CCSRCH101J50
	C745–C747, C765–C767		CCSRCH101J50
	C785–C787		CCSRCH101J50
	C103–C112, C115, C116		CCSRCH221J50
	C651, C652		CCSRCH270J50
	C117, C118, C139, C140, C662		CCSRCH470J50
	C131, C132, C621, C622		CEAT100M50
	C701, C702, C713, C714		CEAT100M50
	C733, C734, C753, C754		CEAT100M50
	C773, C774		CEAT100M50
	C654		CEAT101M10
	C303, C304, C602		CEAT101M16
	C657		CEAT1R0M50
	C506, C513		CEAT221M10
	C505, C655		CEAT2R2M50
	C503		CEAT331M10
	C717, C718, C721, C722		CEAT470M25
	C737, C738, C741, C742		CEAT470M25
	C757, C758, C761, C762		CEAT470M25
	C777, C778, C781, C782		CEAT470M25
	C133, C134		CEAT470M50
	C511		CEAT471M10
	C748, C749, C768, C769		CEV100M16
	C788, C789		CEV100M16
	C510		CKSQYF105Z16
	C601		CKSQYF225Z16
	C653		CKSRYB102K50
	C128, C129, C137, C138		CKSRYB103K50
	C155–C157, C302, C502, C507		CKSRYB103K50
	C509, C514, C515, C535, C540		CKSRYB103K50
	C598, C711, C712, C723, C724		CKSRYB103K50
	C731, C732, C743, C744		CKSRYB103K50
	C751, C752, C763, C764		CKSRYB103K50
	C771, C772, C783, C784		CKSRYB103K50
	C891, C892, C894		CKSRYB103K50
	C512, C656		CKSRYB472K50
	C154, C599, C821, C831		CKSRYB473K50
	C658		CKSRYB561K50

RESISTORS

Mark	No.	Description	Part No.
	All Resistors		RS1/16S###J

OTHERS

Mark	No.	Description	Part No.
	CN552	10P FFC CONNECTOR	52045-1045
	CN601	13P FFC CONNECTOR	52045-1345
	CN801	24P FFC CONNECTOR	52045-2445
	CN501	32P FFC CONNECTOR	52045-3245
	CN103	9P PLUG	AKP7057
	CN102	13P PLUG	AKP7059
	CN101	15P PLUG	AKP7060
	CN351	7P SOCKET	AKP7067
	CN2, CN3	9P SOCKET	AKP7068
	CN502	19P SOCKET	AKP7073
	CN302	21P SOCKET	AKP7074
	CN1	3P PLUG	KM250NA3L
	JA591	REMOTE CONTROL JACK	RKN1004
	JA592	REMOTE CONTROL JACK	RKN1026
	JA111–JA113	4P PIN JACK	VKB1132
	CN301	21P FFC CONNECTOR	VKN1197
	X651	CRYSTAL RESONATOR (4.332MHz)	ASS7004
	X501	CERAMIC RESONATOR (15.7MHz)	ASS7032

L MIC & F.OPT IN ASSY

COILS AND FILTERS

Mark	No.	Description	Part No.
	L1601	CHIP FERRITE BEAD	ATL7002
⚠	L1602, L1603	CHIP SOLID INDUCTOR	QTL1013

CAPACITORS

Mark	No.	Description	Part No.
	C1601, C1606		CCSRCH471J50
	C1603		CEAL470M16
	C1611		CKSRYB102K50
	C1602, C1612, C1614		CKSRYB103K50

RESISTORS

Mark	No.	Description	Part No.
	All Resistors		RS1/16S###J

OTHERS

Mark	No.	Description	Part No.
	CN1601	4P FFC CONNECTOR	52044-0445
	J1601	CORD WITH PLUG	ADX7417
	JA1601	OPTICAL LINK IN	GP1FA502RZ
	JA1606	REMOTE CONTROL JACK	RKN1004
	CN1602	KR CONNECTOR	S3B-PH-K

M MIC AMP ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	IC4751		NJM78L05A
	IC4752		UPC4570G2
	D4751, D4752		UDZS5.1B

CAPACITORS

Mark	No.	Description	Part No.
	C4753		CCSRCH101J50
	C4754		CCSRCH330J50
	C4751, C4752, C4755–C4757		CEAT100M50
	C4758, C4762–C4765		CKSRYB473K50

RESISTORS

Mark	No.	Description	Part No.
	R4756		RD1/4MUF471J
	Other Resistors		RS1/16S###J

OTHERS

Mark	No.	Description	Part No.
	CN4752	4P JUMPER CONNECTOR	52147-0410
	CN4751	KR CONNECTOR	B3B-PH-K
		PCB BINDER	VEF1040
	KN4751	EARTH METAL FITTING	VNF1084

N DSP CONNECTION ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC1651		TC74LVX244FT

COILS AND FILTERS

	L1651		QTL1013

CAPACITORS

	C1651		CKSRYB103K50

RESISTORS

	All Resistors		RS1/16S###J

OTHERS

	CN1652–CN1654	17P SOCKET	AKP7072
	CN1651	B TO B CONNECTOR 50P	AKP7177

O POWER AMP IN ASSY

SEMICONDUCTORS

	Q4001		2SC2412K
	D4001		1SS355

CAPACITORS

	C4002		CKSRYB104K16
	C4001		CKSRYB223K50

RESISTORS

	All Resistors		RS1/16S###J

OTHERS

	4001	10P CABLE HOLDER	51048-1000
	CN4001	24P FFC CONNECTOR	52044-2445
	CN4003	17P PLUG	AKP7061
	CN4002	19P PLUG	AKP7062
	J12	JUMPER WIRE 10P	D20PYY1010E
	CN4004	3P L TYPE PLUG	KM250MA3L

P FAN DRIVE ASSY

SEMICONDUCTORS

	Q4056		2SA1037K
	Q4051		2SC4793
	Q4054		2SD1859X
	Q4052		DTA124EK
	Q4055		DTC114EK
	Q4053		DTC124EK
⚠	D4051, D4052		1SR154-400
	D4058, D4059		1SS355
	D4054, D4055		UDZ12B
	D4053		UDZ27B
	D4057		UDZS5.1B

CAPACITORS

	C4054		CEAT101M16
	C4052		CEAT1R0M50
	C4055, C4056		CEAT331M63
	C4051		CEAT471M35
	C4053		CKSRYB103K50

RESISTORS

	R4057, R4058		RS3LMF331J
	Other Resistors		RS1/16S###J

OTHERS

	CN4051	9P JUMPER CONNECTOR	52147-0910

Mark	No.	Description	Part No.
	CN4054	10P JUMPER CONNECTOR	52147-1010

Q FAN CONNECTION ASSY

SEMICONDUCTORS

⚠	IC4701, IC4702		AEK7023

OTHERS

	4701	9P CABLE HOLDER	51048-0900
	CN4701	6P JUMPER CONNECTOR	52147-0610
	J4701	JUMPER WIRE 9P	D20PYY0915E
	CN4702	3P PLUG	KM250MA3

R DSP ASSY

SEMICONDUCTORS

	IC201		AK4114VQ
	IC561		AK4382AVT
	IC501, IC521, IC541		AK4383VT
	IC101		AK5380VT
	IC301, IC401		DSPC56367PV150
	IC302, IC451		IS61LV6416-12T
	IC303		IS63LV1024-12T
⚠	IC901		NJM2391DL1-33
	IC601, IC621, IC641, IC661, IC681		NJM4565MD
⚠	IC902		NJU7223DL1-18
	IC471		PD8100A
	IC701		TC74VHC157FT
	IC304		TC74VHCU04FT
	IC503, IC705, IC706		TC7SH04FU
	IC305		TC7WH125FU
	Q681, Q682		2SK208
	Q683, Q701, Q971, Q972, Q974		UN5112
	Q684, Q702, Q973		UN5212
	Q601, Q621, Q641, Q661		XP4506
	D681, D682, D721		1SS355
	D702		DAN202K
	D701, D971, D972		DAP202K
	D101–D104		RB501V-40

COILS AND FILTERS

	L301–L304, L401, L402, L451		ATL7002
	L471, L904, L906, L907		ATL7002
		CHIP FERRITE BEAD	
	L101–L104, L201–L203		QTL1013
	L305, L306, L501, L503, L511		QTL1013
	L521, L531, L541, L551, L561		QTL1013
	L571, L701, L705, L706		QTL1013
		CHIP SOLID INDUCTOR	
⚠	L403	CHIP BEAD	VTL1072
⚠	L502	CHIP BEAD	VTL1077

CAPACITORS

	C339, C340		CCSRCH100D50
	C202		CCSRCH150J50
	C623, C625, C643–C646		CCSRCH151J50
	C663–C666		CCSRCH151J50
	C201		CCSRCH220J50
	C204, C206, C209, C301, C302		CCSRCH471J50
	C304, C306, C308, C309, C312		CCSRCH471J50
	C314, C316, C318, C319		CCSRCH471J50
	C321, C322, C325, C326		CCSRCH471J50
	C329, C330, C332, C333, C335		CCSRCH471J50

Mark	No.	Description	Part No.
	C337, C345, C346, C402		CCSRCH471J50
	C404–C408, C410–C418		CCSRCH471J50
	C420–C422, C424–C426, C451		CCSRCH471J50
	C471		CCSRCH471J50
	C603–C606		CCSRCH820J50
	C111, C112, C502, C522, C542		CEV100M16
	C562, C607, C608, C627, C628		CEV100M16
	C647, C648, C667, C668		CEV100M16
	C681, C682		CEV100M16
	C104, C105, C551, C907, C909		CEV101M16
	C106		CEV2R2M50
	C901, C902		CEV330M25
	C210, C341, C401		CEV470M6R3
	C212, C614, C624, C626		CKSRYB102K50
	C683–C685, C689, C693, C695		CKSRYB102K50
	C925		CKSRYB102K50
	C343, C429, C677, C678, C924		CKSRYB103K50
	C101–C103, C205, C207, C208		CKSRYB104K16
	C211, C305, C307, C310, C311		CKSRYB104K16
	C313, C315, C324, C331, C334		CKSRYB104K16
	C338, C348, C352, C409, C419		CKSRYB104K16
	C423, C427, C452, C501, C503		CKSRYB104K16
	C521, C541, C561, C591, C630		CKSRYB104K16
	C701, C705, C706, C906, C908		CKSRYB104K16
	C303, C403		CKSRYB105K6R3
	C109, C110, C622		CKSRYB222K50
	C601, C602, C609, C610		CKSRYB332K50
	C621, C641, C642, C661, C662		CKSRYB392K50
	C629, C649, C650, C669, C670		CKSRYB472K50
	C971		CKSRYB472K50
	C923		CKSRYB473K16
	C203		CKSRYB474K10
	C323, C428		CKSRYB563K16
	C107, C611–C613, C615		CKSRYF104Z25
	C671, C672, C694, C696–C698		CKSRYF104Z25

RESISTORS

Mark	No.	Description	Part No.
	R851		RAB4C101J
	R204, R225, R226, R229, R701		RAB4C104J
	R712		RAB4C104J
	R221		RS1/16S1802F
	Other Resistors		RS1/16S###J

OTHERS

Mark	No.	Description	Part No.
	CN102	B TO B CONNECTOR 50P	AKP7176
	X201	CRYSTAL RESONATOR (24MHz)	ASS7025
	X301	CRYSTAL RESONATOR (33MHz)	ASS7040
	CN702	10P FFC CONNECTOR	VKN1414
	CN101	20P FFC CONNECTOR	VKN1424
	CN601	21P FFC CONNECTOR	VKN1425
	CN701	22P FFC CONNECTOR	VKN1426
	KN931	EARTH METAL FITTING	VNF1109

S DISPLAY ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC3000		PD5771A
	IC3002		RPM7140-H4
	Q3003		2SA1037K
	Q3002		DTC124EK
	Q3004		HN1C01FU
	D3006–D3008		1SS355
	D3001		BR5064X
	D3009		DAN202K
	D3000		MAA5064X

COILS AND FILTERS

Mark	No.	Description	Part No.
	L3000	CHIP FERRITE BEAD	ATL7002

SWITCHES AND RELAYS

Mark	No.	Description	Part No.
	S3000–S3017		ASG7013

CAPACITORS

Mark	No.	Description	Part No.
	C3003, C3004, C3007, C3024, C3025		CCSRCH101J50
	C3020, C3021, C3026, C3027		CEJQ100M16
	C3028, C3029		CEJQ101M10
	C3008, C3012, C3035		CEJQ101M6R3
	C3022, C3023		CEJQ330M25
	C3000–C3002		CKSRYB102K50
	C3009, C3011, C3032–C3034		CKSRYB103K50
	C3036, C3037		CKSRYB103K50
	C3006, C3031		CKSRYB104K16
	C3030		CKSRYF104Z50

RESISTORS

Mark	No.	Description	Part No.
	All Resistors		RS1/16S###J

OTHERS

Mark	No.	Description	Part No.
	3008	4P CABLE HOLDER	51048-0400
	3002	5P CABLE HOLDER	51048-0500
	3003	7P CABLE HOLDER	51048-0700
	CN3007	3P FFC CONNECTOR	52045-0345
	CN3004	4P FFC CONNECTOR	52045-0445
	CN3005	7P FFC CONNECTOR	52045-0745
	CN3001	11P FFC CONNECTOR	52045-1145
	CN3006	32P FFC CONNECTOR	52045-3245
	V3000	FL TUBE	AAV7087
	J3008	JUMPER WIRE 4P	D20PYY0415E
	J3002	JUMPER WIRE 5P	D20PYY0510E
	J3003	JUMPER WIRE 7P	D20PYY0715E
	3001	FL HOLDER	VNF1085
	X3000	CERAMIC RESONATOR (4.19MHz)	ASS7042

T VOLUME ASSY

SWITCHES AND RELAYS

Mark	No.	Description	Part No.
	S3402–S3404		ASG7013
	S3401		ASX7037

CAPACITORS

Mark	No.	Description	Part No.
	C3401, C3402		CKSRYB103K50

RESISTORS

Mark	No.	Description	Part No.
	All Resistors		RS1/16S###J

OTHERS

Mark	No.	Description	Part No.
	CN3401	5P JUMPER CONNECTOR	52147-0510

U MULTI JOG ASSY

SWITCHES AND RELAYS

Mark	No.	Description	Part No.
	S3452–S3455		ASG7013
	S3451		ASX7038

CAPACITORS

Mark No.	Description	Part No.
C3451, C3452		CKSRYB103K50

RESISTORS

Mark No.	Description	Part No.
All Resistors		RS1/16S###J

OTHERS

Mark No.	Description	Part No.
3452	3P CABLE HOLDER	51048-0300
CN3451	7P JUMPER CONNECTOR	52147-0710
J3452	3P JUMPER WIRE	D20PYY0310E

V HEADPHONE ASSY

CAPACITORS

Mark No.	Description	Part No.
C1951, C1952		CKSRYB392K50

RESISTORS

Mark No.	Description	Part No.
All Resistors		RS1/16S###J

OTHERS

Mark No.	Description	Part No.
CN1951	3P FFC CONNECTOR	52045-0345
1951	PHONE JACK	AKN7029
KN1951	EARTH METAL FITTING	VNF1084

W REGULATOR ASSY

SEMICONDUCTORS

Mark No.	Description	Part No.
⚠ IC2411		AEK7003
⚠ IC2409		NJM78L05A
⚠ IC2404		NJM78M05FA
⚠ IC2403		NJM78M12FA
⚠ IC2401		NJM78M15FA
⚠ IC2405, IC2407		NJM78M56FA
⚠ IC2406		NJM79M05FA
⚠ IC2402		NJM79M15FA
⚠ Q2401		2SA1803
⚠ D2401–D2404, D2407–D2410		1SR154-400
⚠ D2418, D2419		1SR154-400
D2411		1SS355
⚠ D2415		D3SBA20(B)
D2405, D2406, D2413, D2414		RB501V-40
D2421, D2422		UDZ15B
D2420		UDZS10B
D2423, D2424		UDZS6.2B

CAPACITORS

Mark No.	Description	Part No.
C2446		CCSRCH101J50
C2440		CEANP470M35
C2415, C2416		CEAT101M16
C2408		CEAT101M25
C2405, C2406, C2410, C2429		CEAT221M35
C2411, C2412		CEAT222M16
C2435		CEAT2R2M50
C2443		CEAT331M10
C2401, C2402		CEAT332M35
C2442		CEAT470M50
C2441		CEAT470M63
C2436, C2439		CEAT471M16
C2433		CEAT472M16
C2451, C2452		CKSRYB102K50
C2403, C2404, C2407, C2409		CKSRYB103K50
C2413, C2414, C2428, C2434, C2453		CKSRYB103K50
C2424		CKSRYB473K50
C2444		CQMBA104J50

RESISTORS

Mark No.	Description	Part No.
R2403		RD1/4MUF121J
R2401		RD1/4MUF470J
Other Resistors		RS1/16S###J

OTHERS

Mark No.	Description	Part No.
2402	7P CABLE HOLDER	51048-0700
CN2401	8P JUMPER CONNECTOR	52147-0810
Y2401	BOARD IN JUMPER	ADX7420
CN2411	7P PLUG	AKP7056
CN2404, CN2406, CN2412, CN2414	9P PLUG	AKP7057
CN2405	15P PLUG	AKP7060
CN2407–CN2409	17P PLUG	AKP7061
CN2413	19P PLUG	AKP7062
CN2410	21P PLUG	AKP7063
CN2415	3P SOCKET	KP250NA3
KN2401–KN2403	EARTH METAL FITTING	VNF1084

X POWER AMP-L ASSY

SEMICONDUCTORS

Mark No.	Description	Part No.
⚠ IC4101, IC4201, IC4301		PA9009A
⚠ IC4102, IC4202, IC4302		PBD001A
⚠ IC4103, IC4203, IC4303, IC4453		PBD002A
Q4102, Q4202, Q4302		2SA1255
Q4101, Q4201, Q4301		2SC3326
D4102, D4104–D4107, D4202		1SS355
D4204–D4207, D4302, D4304–D4307		1SS355
D4101, D4103, D4201, D4203, D4301		UDZS10B
D4303		UDZS10B

CAPACITORS

Mark No.	Description	Part No.
C4106, C4107, C4206, C4207		ACG7041
C4306, C4307	(221µF/100V)	ACG7041
C4102, C4202, C4302		CCSRCH331J50
C4112, C4113, C4212, C4213		CCSRCH6R0D50
C4312, C4313		CCSRCH6R0D50
C4114, C4214, C4314		CEANPR22M50
C4401, C4402		CEAT331M63
C4110, C4111, C4210, C4211		CEHAT100M2A
C4310, C4311		CEHAT100M2A
C4101, C4201, C4301		CEHAT100M50
C4103, C4203, C4303		CEHAT331M10
C4104, C4105, C4204, C4205		CEHAT470M63
C4304, C4305		CEHAT470M63
C4108, C4109, C4208, C4209		CEHAZL470M25
C4308, C4309		CEHAZL470M25

RESISTORS

Mark No.	Description	Part No.
⚠ R4131, R4132, R4231, R4232		ACN7107
⚠ R4331, R4332, R4482	(0.1Ω)	ACN7107
⚠ R4119, R4219, R4319	(0.22Ω/5W)	ACN7111
Other Resistors		RS1/16S###J

OTHERS

Mark No.	Description	Part No.
Y2	LEAD WITH HOUSING	ADX7398
Y3	LEAD WITH HOUSING	ADX7399
Y5	LEAD WITH HOUSING	ADX7404

Mark	No.	Description	Part No.
	CN4401	17P SOCKET	AKP7072
	CN4403	3P L TYPE PLUG	KM250MA3
	CN4456	10P PLUG	KM250NA10L
	KN4401, KN4402	EARTH METAL FITTING	VNF1084

Y POWER AMP-R ASSY

SEMICONDUCTORS

⚠	IC4151, IC4251, IC4351	PA9009A
⚠	IC4152, IC4252, IC4352, IC4452	PBD001A
⚠	IC4153, IC4253, IC4353	PBD002A
	Q4152, Q4252, Q4352	2SA1255
	Q4403, Q4404	2SC2412K
	Q4151, Q4251, Q4351	2SC3326
	D4152, D4154–D4157, D4252	1SS355
	D4254–D4257, D4352, D4354–D4357	1SS355
	D4151, D4153, D4251, D4253, D4351	UDZS10B
	D4353	UDZS10B

CAPACITORS

	C4156, C4157, C4256, C4257	ACG7041
	C4356, C4357 (221µF/100V)	ACG7041
	C4152, C4252, C4352	CCSRCH331J50
	C4162, C4163, C4262, C4263	CCSRCH6R0D50
	C4362, C4363	CCSRCH6R0D50
	C4164, C4264, C4364	CEANPR22M50
	C4405	CEAT331M10
	C4403, C4404	CEAT331M63
	C4160, C4161, C4260, C4261	CEHAT100M2A
	C4360, C4361	CEHAT100M2A
	C4151, C4251, C4351	CEHAT100M50
	C4153, C4253, C4353	CEHAT331M10
	C4154, C4155, C4254, C4255	CEHAT470M63
	C4354, C4355	CEHAT470M63
	C4158, C4159, C4258, C4259	CEHAZL470M25
	C4358, C4359	CEHAZL470M25

RESISTORS

⚠	R4181, R4182, R4281, R4282	ACN7107
⚠	R4381, R4382, R4481 (0.1Ω)	ACN7107
⚠	R4169, R4269, R4369 (0.22Ω/5W)	ACN7111
	Other Resistors	RS1/16S###J

OTHERS

	Y1	LEAD WITH HOUSING	ADX7397
	Y4	LEAD WITH HOUSING	ADX7400
	Y6	LEAD WITH HOUSING	ADX7404
	CN4402	19P SOCKET	AKP7073
	CN4454	10P PLUG	KM250NA10L
	KN4403, KN4404	EARTH METAL FITTING	VNF1084

Z POWER AMP-C ASSY

SEMICONDUCTORS

⚠	IC4451	PA9009A
	Q4452	2SA1255
	Q4451	2SC3326
	D4452, D4454–D4457	1SS355
	D4451, D4453	UDZS10B

Mark	No.	Description	Part No.

CAPACITORS

	C4456, C4457 (221µF/100V)	ACG7041
	C4452	CCSRCH331J50
	C4462, C4463	CCSRCH6R0D50
	C4464	CEANPR22M50
	C4460, C4461	CEHAT100M2A
	C4451	CEHAT100M50
	C4453	CEHAT331M10
	C4454, C4455	CEHAT470M63
	C4458, C4459	CEHAZL470M25

RESISTORS

⚠	R4469 (0.22Ω/5W)	ACN7111
	Other Resistors	RS1/16S###J

OTHERS

	CN4453, CN4455	10P SOCKET	KP250NA10

AA SP/PS ASSY

SEMICONDUCTORS

	Q4602, Q4603	RN1903
	Q4601	RN4903
	D4601–D4610	1SS355

COILS AND FILTERS

	L4601–L4607	ATH1053
	L4608, L4609	RTF1167

SWITCHES AND RELAYS

	RY4601–RY4605	ASR7014

CAPACITORS

⚠	C4621, C4622	ACH7169
	C4623	CEAT101M50
	C4601–C4614	CFTYA224J50
	C4625–C4631	CQMBA103J50

RESISTORS

⚠	R4621–R4627	RD1/2LMF4R7J
	R4628–R4632	RD1/2VM331J
	R4615, R4616	RD1/4MUF473J
⚠	R4613, R4614	RS1LMF471J
⚠	R4601–R4607	RS1LMF4R7J
⚠	R4611, R4612	RS2LMF331J
	Other Resistors	RS1/16S###J

OTHERS

	4601	6P CABLE HOLDER	51048-0600
	4602	8P CABLE HOLDER	51048-0800
	Y13	BOARD IN JUMPER	ADX7291
	J4602	JUMPER WIRE 8P	D20PYY0830E
	CN4610, CN4613	5P PLUG	KM200TA5
	CN4611	8P SPEAKER TERMINAL	XKE3017
	CN4612	6P SPEAKER TERMINAL	XKE3018

AB DIODE ASSY

SEMICONDUCTORS

⚠	D2241, D2242	LN6SB60-4003

AC TRANS 2-1 ASSY

Mark	No.	Description	Part No.

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	IC2201, IC2202	PROTECTOR(3.15A)	AEK7016
	Q2202		RN4903
	Q2201		UN521L
⚠	D2201		S1WB(A)60SD
	D2202		UDZ16B
	D2207, D2208		UDZS22B
	D2203–D2206, D2209–D2212		UDZS9.1B

CAPACITORS

Mark	No.	Description	Part No.
⚠	C2202, C2203 (1μF/100V)		ACH1237
	C2207, C2208 (470μF/71V)		ACH7173
	C2209, C2210		CEAT101M63
	C2211, C2212		CEAT221M63

RESISTORS

Mark	No.	Description	Part No.
⚠	R2205, R2206		RS1LMF332J
	Other Resistors		RS1/16S###J

OTHERS

Mark	No.	Description	Part No.
	2201,		2202 6P CABLE
	HOLDER51048-0600		
	2203	6P CABLE HOLDER	51052-0600
	H2201–H2204	FUSE CLIP	AKR1004
	J2201	JUMPER WIRE6P	D20PYY0615E
	J10	JUMPER WIRE	D25PYY0607E

AD VH TR ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	Q2232		2SA1837
⚠	Q2231		2SC4793
⚠	D2231, D2232		1SR154-400

RESISTORS

Mark	No.	Description	Part No.
	All Resistors		RS1/16S###J

OTHERS

Mark	No.	Description	Part No.
	CN2231	6P L TYPE CONNECTOR	KPD6L

AE TRANS 2-2 ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	IC2251, IC2252	PROTECTOR(3.15A)	AEK7016
⚠	IC2253	PROTECTOR(5A)	AEK7019

CAPACITORS

Mark	No.	Description	Part No.
	C2251–C2253		CQMBA104J50

RESISTORS

Mark	No.	Description	Part No.
⚠	R2251, R2252		RD1/4MUF100J

OTHERS

Mark	No.	Description	Part No.
	2251	7P CABLE HOLDER	51048-0700

AF TRANS 1 ASSY

TRANS 1 Assy has no service parts.

AG PRIMARY ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	IC2001		NJM78M56FA
	Q2001		KRC101M
	D2002, D2004, D2005		1SS355
⚠	D2001		S1WB(A)60SD
	D2003		UDZS5.1B

COILS AND FILTERS

Mark	No.	Description	Part No.
⚠	L2001	LINE FILTER	ATF7018
⚠	L2002, L2003	FERRITE BEAD	VTH1013

TRANSFORMERS

Mark	No.	Description	Part No.
⚠	T2001		ATT7040

SWITCHES AND RELAYS

Mark	No.	Description	Part No.
⚠	RY2001		ASR7025

CAPACITORS

Mark	No.	Description	Part No.
⚠	C2001, C2002 (0.01F/AC275V)		ACE7013
⚠	C2003 (10000pF/AC250V)		ACG7033
	C2008		CEAT102M25
	C2009		CEAT221M25
	C2005–C2007, C2011, C2012		CKSRYB103K50
	C2004		CQMA103J50

RESISTORS

Mark	No.	Description	Part No.
	R2002		RD1/2VM101J
	Other Resistors		RS1/16S###J

OTHERS

Mark	No.	Description	Part No.
	CN2002	11P FFC CONNECTOR	52045-1145
⚠	CN2005	1P AC SOCKET	AKP1034
	H2001, H2002	FUSE CLIP	AKR7001
	CN2003, CN2004	5P SOCKET	KP200TA5L
⚠	CN2001	AC CORD SOCKET	RKP1751
	KN2001	EARTH METAL FITTING	VNF1084

6. ADJUSTMENT

AM Tuner Section

- There is no adjustment in the AM tuner.

FM Tuner Section

- Set the mode selector to FM BAND.
- Connect the wiring as shown in Fig. 1.

Step No.	Adjustment Title	ANT. Input level and signal condition			Adjustment	
		Frequency (MHz)	Modulation	Input Level (dBμV)	Adjust point	Contents
1	T-METER Adjustment	98	OFF	80	L201	Adjust L201 so that the DC voltage between Pin 21 and Pin 23 of IC201 (Test point Vtm) gets within 0 ± 50mV.

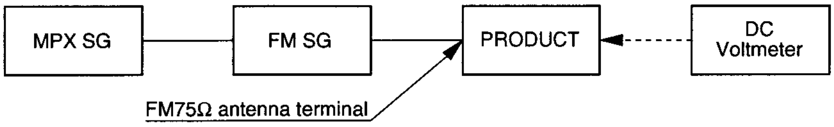

MPX SG
FM SG
PRODUCT
DC Voltmeter
FM75Ω antenna terminal

Fig.1 Adjustment Wiring Diagram

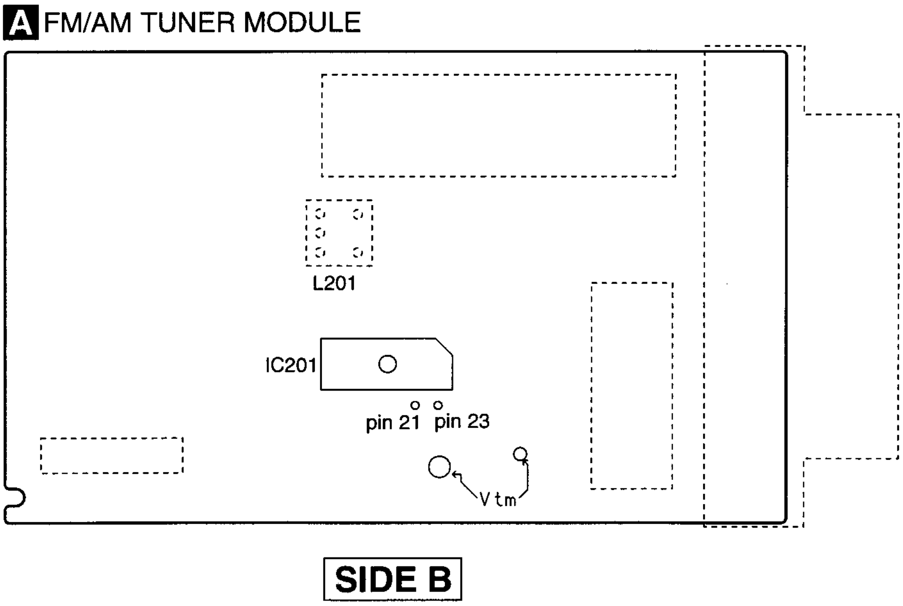

A FM/AM TUNER MODULE
L201
IC201
pin 21
pin 23
Vtm
SIDE B

Fig.2 Adjustment Point

7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 PROTECTION CIRCUIT CONTROL SPECIFICATION

Microcomputer-related ports

FAN_DRIVE (Expansion IC) : For Fan on/off
TEMP_IN (pin 94)
Input port (A/D) : To detect temperature
FAN_STOP (pin 95)
Input port : To detect Fan forced stop
OL_DET (pin 73)
Input port : To detect overloading at the amplifier
(Interrupt port)
DC_DET (pin 63)
Input port : For DC detection

The following control processes are activated immediately before the relay system is turned on upon power-on. The time is 4.8 seconds after power-on. (Control of the relay system is enabled 5.2 seconds after power-on.)
Only DC detection is enabled 2 seconds after power-on to activate it before other protection functions.

① Thermal and Fan detection, and Fan control

1) Thermal detection and Fan control

Valid with American and Japanese models only.

TEMPIN (V)	Temperature (°C)	Fan	Remarks
More than 4.10	More than 125	ON	Mute ON & speaker relay OFF : The warning indication "OVERHEAT"
3.83 to 4.09	110 to 125	ON	Leading hold
2.91 to 3.82	80 to 110	ON	Mute OFF & speaker relay ON : Normal mode
2.58 to 2.90	70 to 80	Leading hold	
Less than 2.52	Less than 70	OFF	

Valid with European and other general-area models only.

TEMPIN (V)	Temperature (°C)	Fan	Remarks
More than 3.58	More than 100	ON	Mute ON & speaker relay OFF : The warning indication "OVERHEAT"
3.30 to 3.57	90 to 100	ON	Leading hold
2.91 to 3.29	80 to 90	ON	Mute OFF & speaker relay ON : Normal mode
2.53 to 2.90	70 to 80	Leading hold	
Less than 2.52	Less than 70	OFF	

* By poor contact of Thermistor and alien substance mixture, there are the following cases displayed FL.
Become STBY after having done flushing with "THDCT NG" for three seconds.
By opening of thermistor junction or energization in very cold place (less than -15°C),TEMP line becomes high impedance. And when TEMP port became equal to or less than 0.1V.

2) Fan detection

If the fan is forcibly stopped, the FAN_DET port becomes "L"
Detecting "L" the microcomputer performs the following operations:

1. System muting on
2. Protection relays off

The warning indication "FAN STOP" appears (flashing) on the FL display.
If this status continues for more than 3 seconds, the power is turned off (for Standby mode).
If the port becomes "H" within 3 seconds, the unit resets automatically.
FAN_DET port performs the chattering check for 7 msec.
In addition, there is the case that detection delays for maximum 20 msec because performs monitor of FAN_DET port with a main loop.

② Overload detection (abnormality detection)

If the speaker terminals are short-circuited or low-load driving is detected, the OL_DET port becomes "L"
Detecting "L" edge interrupt in an interrupt process, the microcomputer performs the following operations:

1. System muting on
2. Speaker relay off (Control with the display microcomputer)
3. Power off (Standby mode)

③ DC detection (defect detection)

Only DC detection is enabled 2 seconds after power-on.
If there is a fault in the power amplifier or a high-level signal lower than5 Hz is input, the DC_DET port becomes "L"
Detecting "L" the microcomputer performs the following operations:

1. System muting on
2. Speaker relay off (Control with the display microcomputer)

The warning indication "AMP ERR" appears on the FL display.

If this status continues for more than 3 seconds, the power is turned off (for Standby mode) and flashes the standby LED.
Do not accept the key input afterward.
(Flash it always till turns the primary side off.)
If the port becomes "L" within 3 seconds, the unit resets automatically.

DC_DET port performs the chattering check for 1 msec.
In addition, there is the case that detection delays for maximum 20 msec because performs monitor of DC_DET port with a main loop.
Even if turns the primary side off and turns on once again, standby LED flashes as it is.
If detects DC once and turned the power off, do not accept the key input afterward.
However, power on is possible when the following key was pressed to be able to key input in the protection line and service.

1. Test mode (remote control code : A55F)
2. When the STEREO/DIRECT key and SIGNAL SELECT key are both held pressed for 2 seconds.
   (Be effective when turned the power off by DC detection regarding 2.)

④ Diagnostic mode

This mode is only for servicing and checking the circuit design, and not open to users.
When the STEREO/DIRECT key and TONE + key are both held pressed for 2 seconds in Standby mode, the power is turned on, and the number of times of each defect or Speaker relay off by abnormality detection is sequentially displayed on the FL display.
Displayed items:

- DC detection
- Overload detection
- Fan detection
- Temperature detection

Hold the STEREO/DIRECT key and TONE + key pressed for 2 seconds in Standby mode.

PROTECT CHECK
DC 003

↓

PROTECT CHECK
OVERLOAD 002

↓

PROTECT CHECK
FANTOP 000

↓

PROTECT CHECK
TEMP 000

When the MULTI CH IN key and TONE – key are both held pressed for 2 seconds in standby mode, all clear the counter for detection.

● Protection Process List

Item	Purpose	Detection Method	Process	Warning Indication	Remarks
DC detection	To detect amplifier damage (defect status) A process to protect speakers (for protection of connected external devices)	Detects when the DC_DET port becomes "L".	Turns muting on and speaker relay off, then turns off the power after 3 seconds.	Flashing "AMP ERR" for 3 seconds. Flash the standby LED after the power off.	Once detected and turned the power off, input a key never again.
AMP overload	To detect overloading (abnormal status) With low-load driving or a short circuit of the speaker terminals (for protection of the amplifier)	Detects when the AMP_OL port becomes "L" (checks by interrupt).	Turns muting on and speaker relay off, and immediately turns off the power.	None	
Fan control	Protection function against a temperature rise at the heat sink	HY, F : Detect temperature more than 100°C. KU, J : Detect temperature more than 125°C.	Turns muting on and speaker relay off. Rotate the fan	Continue flasing with "OVERHEAT"	
		HY, F : Detect temperature of 90 to 100°C. KU, J : Detect temperature of 110 to 125°C.	Rotate the fan		Mute, relay and warning indications is leading hold.
		HY, F : Detect temperature of 80 to 90°C. KU, J : Detect temperature of 80 to 110°C.	Rotate the fan		Mute off & relay on (normal mode)
		Detect temperature of 70 to 80°C.	Fan is leading hold		
		A condition except the above.	Stop the fan		
Fan stop	To know that the rotating fan is forcibly stopped	Detects when the FAN_DET port becomes "L".	Turns muting on and speaker relay off, then turns off the power after 3 seconds.	Flashing "FAN STOP" for 3 seconds	If the FAN_DET port becomes "H" with in 3 seconds, the unit resets automatically. After the power off, the key input is possible once again.

7.1.2 DIAGNOSTICS OF AMPLIFIER SECTION

When DC detection worked (STBY IND. flashes for a long time) in the protection circuit of foregoing section (or there is not the speaker output, probably only 1CH), failure (damage) of the power amplifier section is considered.

Because this receiver cannot diagnose the amplifier section by an electricity state by structure, please diagnose it in the following steps.

Caution:
When release the STBY (flashes) state before repair, Because there is the case that the damage progresses when turns the power on once again, please be careful.

- According to a symptom, perform the following confirmation beforehand.

1. Are not Fuse and IC protector opening it?
2-a. When can turn on electricity, confirm that supply voltage of the point that can measure is appropriate.
2-b. Furthermore, confirm that voltage ((in a no signal) DC and the appropriate signal output) between GND and R4621-4627 (Either of the amplifier side and the speaker terminal side is possible) (Or remove either of CN4601-4604). And limit failure CH.

If was able to limit failure CH, diagnose the CH in the following steps.

- **Use the tester basically and check that each part is not damaged (resistance value / open / short circuit).**

About parts with damaged possibility, explain FL ch to an example in order.

1. R4131, 4132 (ACN7107: 0.1 Ω, 1W chip drain resistor)
   IC 4102, 4103
   (PBD001A: Nch, PBD002A: Pch output POWER MOS Tr.)

2. R4119 (ACN7111: 0.22 Ω .5W ×2 cement source resistor)
   R4117, 4118
   (RS1/16S471J: 470 Ω chip resistor for protection circuit)
   D4101, 4103
   (UDZS10B: 10V Zener diode for current limiting)
   D4102, 4104 (1SS355: Small signal diodes same as above)
   R4110, 4111 (RS1/16S560J: 56 Ω chip gate resistor)
   R4106, 4107
   (RS1/16S101J:100 Ω chip IC4101 power filter resistor)

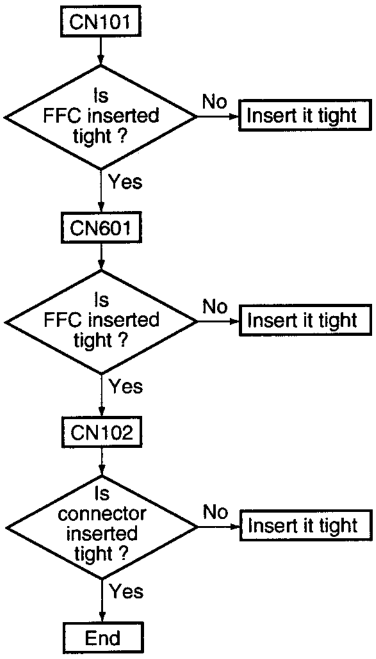
3. IC4101 (PA9009A: Power amplifier with output current bias Voltage step HIC)
   IC4701, 4702
   (AEK7023: 200mA IC protector /FAN CONNECTION Assy)

4. Q2231, 2232 (2SC4793,2SA1837 TO-220 Tr. /VH TR Assy)

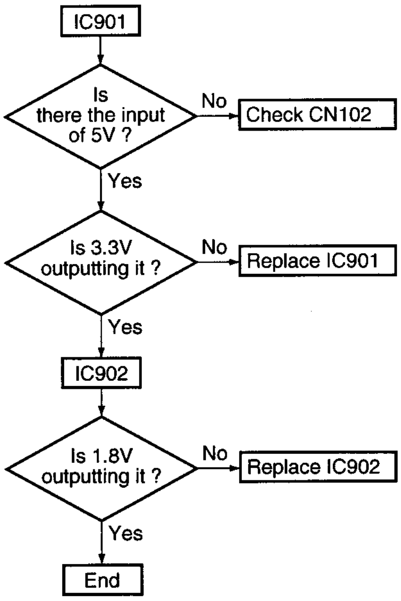
7.1.3 TROUBLE SHOOTING

- When a sound is not out in the surround mode with the digital signal input.
- Suppose CR to be poor contact and that is not damaged.
- This shows failure analysis of DSP Assy.

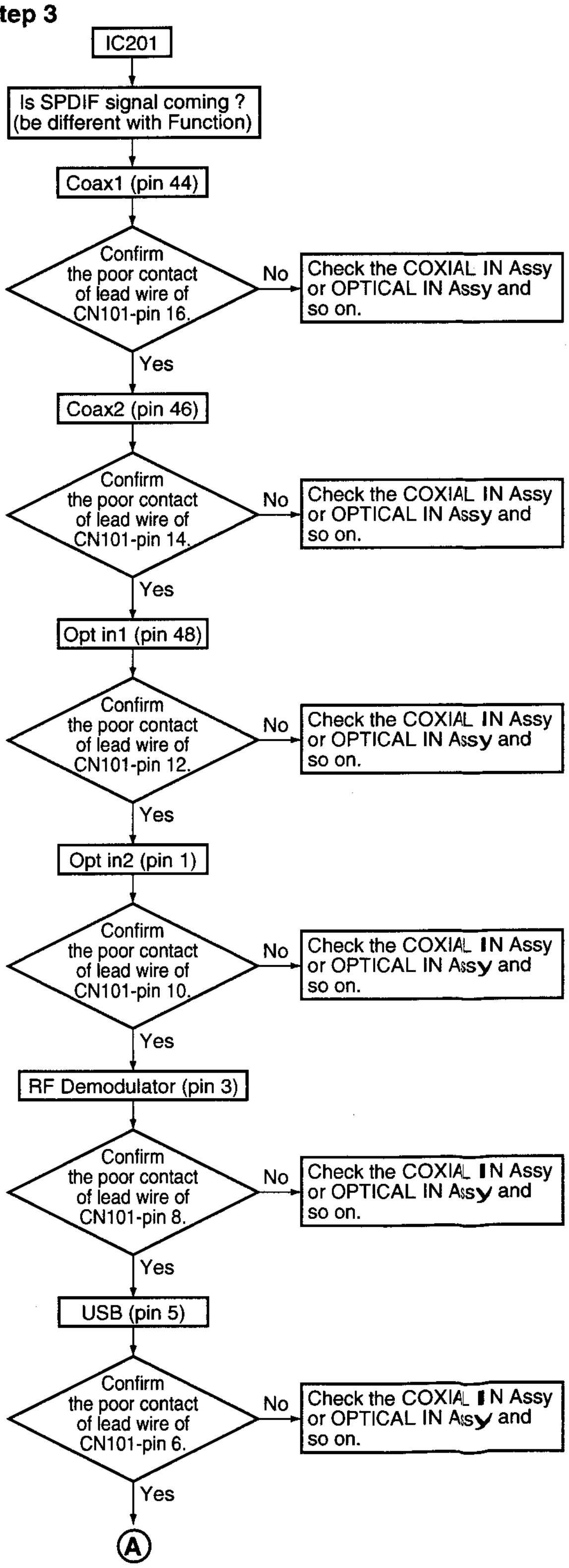
Step 1

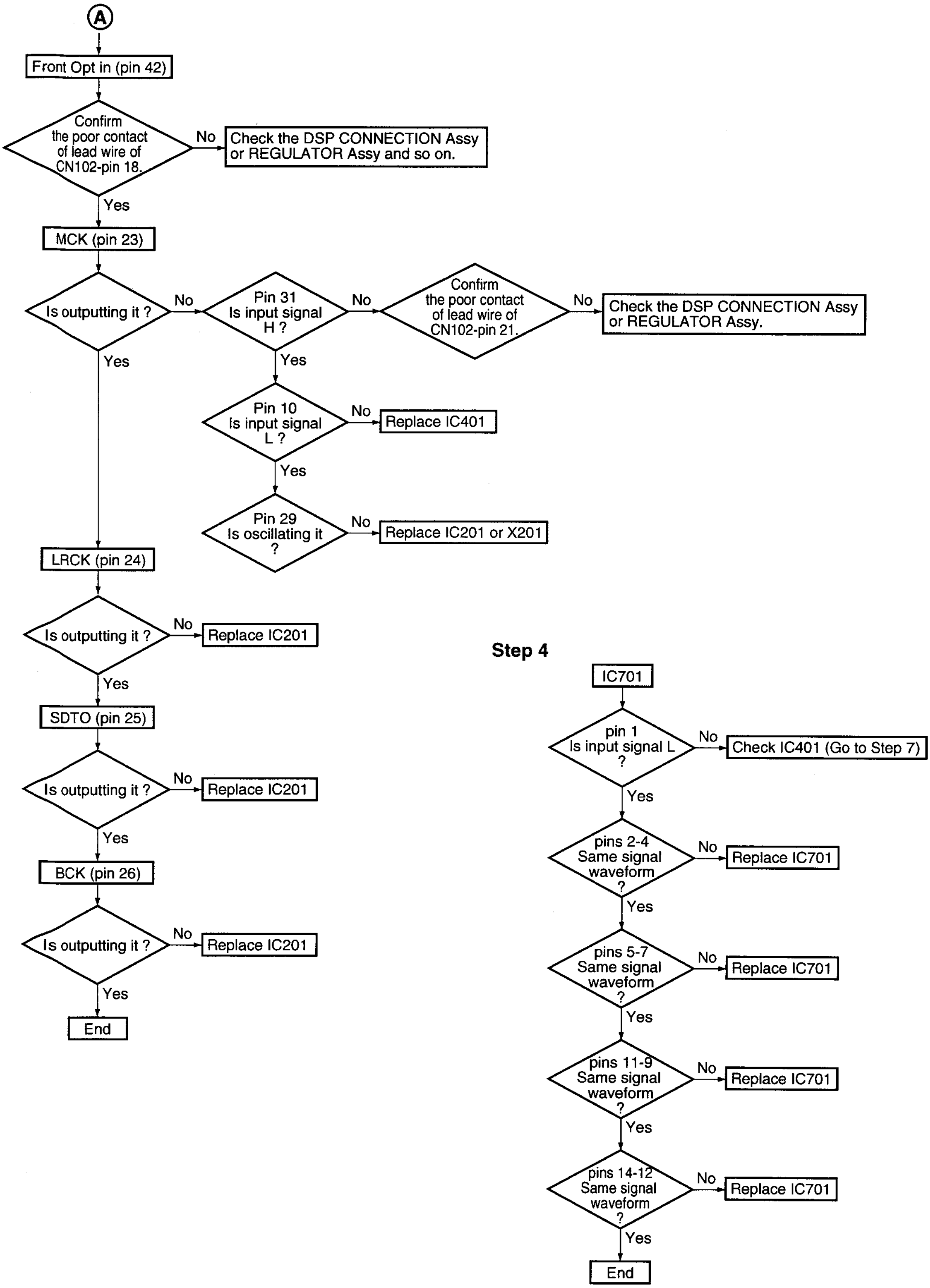

CN101
Is FFC inserted tight ?
No
Insert it tight
Yes
CN601
Is FFC inserted tight ?
No
Insert it tight
Yes
CN102
Is connector inserted tight ?
No
Insert it tight
Yes
End

Step 2

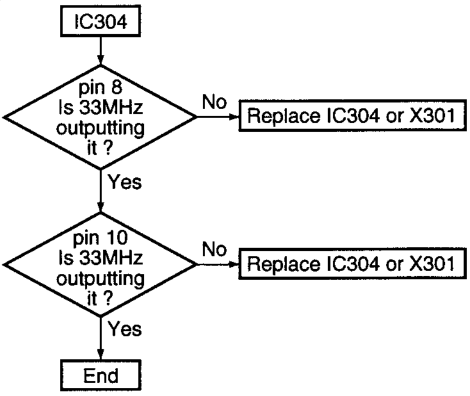

IC901
Is there the input of 5V ?
No
Check CN102
Yes
Is 3.3V outputting it ?
No
Replace IC901
Yes
IC902
Is 1.8V outputting it ?
No
Replace IC902
Yes
End

Step 3

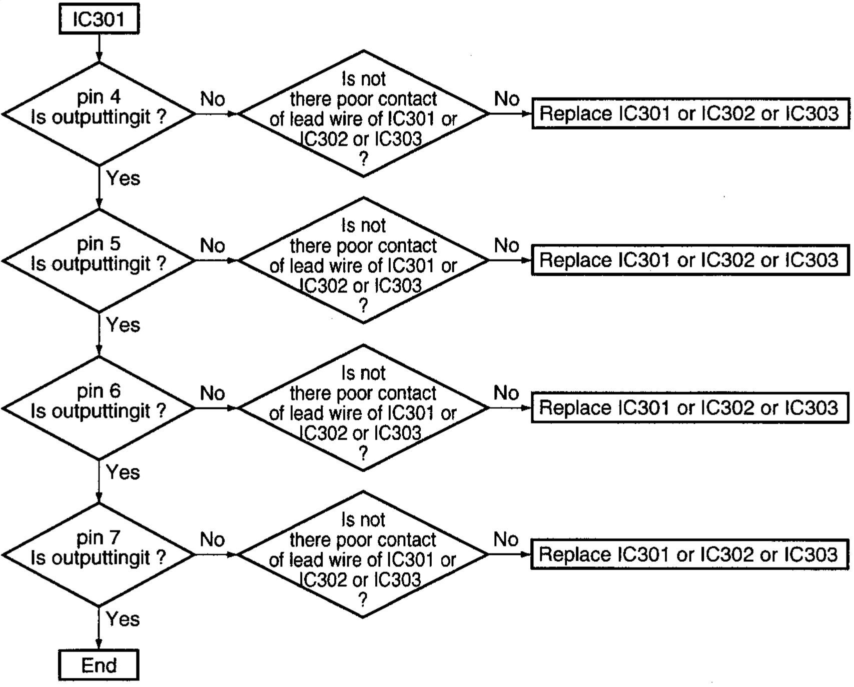

IC201
Is SPDIF signal coming ? (be different with Function)
Coax1 (pin 44)
Confirm the poor contact of lead wire of CN101-pin 16.
No
Check the COXIAL IN Assy or OPTICAL IN Assy and so on.
Yes
Coax2 (pin 46)
Confirm the poor contact of lead wire of CN101-pin 14.
No
Check the COXIAL IN Assy or OPTICAL IN Assy and so on.
Yes
Opt in1 (pin 48)
Confirm the poor contact of lead wire of CN101-pin 12.
No
Check the COXIAL IN Assy or OPTICAL IN Assy and so on.
Yes
Opt in2 (pin 1)
Confirm the poor contact of lead wire of CN101-pin 10.
No
Check the COXIAL IN Assy or OPTICAL IN Assy and so on.
Yes
RF Demodulator (pin 3)
Confirm the poor contact of lead wire of CN101-pin 8.
No
Check the COXIAL IN Assy or OPTICAL IN Assy and so on.
Yes
USB (pin 5)
Confirm the poor contact of lead wire of CN101-pin 6.
No
Check the COXIAL IN Assy or OPTICAL IN Assy and so on.
Yes
A


A
Front Opt in (pin 42)
Confirm the poor contact of lead wire of CN102-pin 18.
No
Check the DSP CONNECTION Assy or REGULATOR Assy and so on.
Yes
MCK (pin 23)
Is outputting it ?
No
Pin 31 Is input signal H ?
No
Confirm the poor contact of lead wire of CN102-pin 21.
No
Check the DSP CONNECTION Assy or REGULATOR Assy.
Yes
Yes
Pin 10 Is input signal L ?
No
Replace IC401
Yes
Pin 29 Is oscillating it ?
No
Replace IC201 or X201
LRCK (pin 24)
Is outputting it ?
No
Replace IC201
Yes
SDTO (pin 25)
Is outputting it ?
No
Replace IC201
Yes
BCK (pin 26)
Is outputting it ?
No
Replace IC201
Yes
End
Step 4
IC701
pin 1 Is input signal L ?
No
Check IC401 (Go to Step 7)
Yes
pins 2-4 Same signal waveform ?
No
Replace IC701
Yes
pins 5-7 Same signal waveform ?
No
Replace IC701
Yes
pins 11-9 Same signal waveform ?
No
Replace IC701
Yes
pins 14-12 Same signal waveform ?
No
Replace IC701
Yes
End

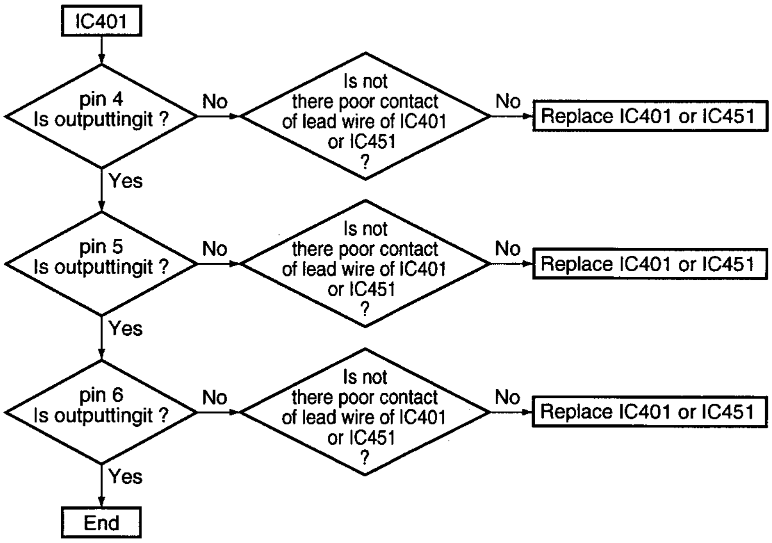
Step 5


IC304
pin 8
Is 33MHz
outputting
it ?
No
Replace IC304 or X301
Yes
pin 10
Is 33MHz
outputting
it ?
No
Replace IC304 or X301
Yes
End

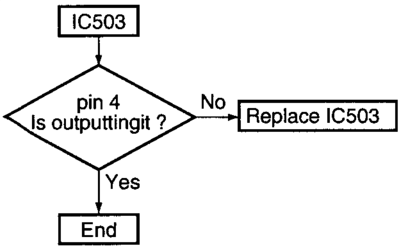
Step 6


IC301
pin 4
Is outputtingit ?
No
Is not
there poor contact
of lead wire of IC301 or
IC302 or IC303
?
No
Replace IC301 or IC302 or IC303
Yes
pin 5
Is outputtingit ?
No
Is not
there poor contact
of lead wire of IC301 or
IC302 or IC303
?
No
Replace IC301 or IC302 or IC303
Yes
pin 6
Is outputtingit ?
No
Is not
there poor contact
of lead wire of IC301 or
IC302 or IC303
?
No
Replace IC301 or IC302 or IC303
Yes
pin 7
Is outputtingit ?
No
Is not
there poor contact
of lead wire of IC301 or
IC302 or IC303
?
No
Replace IC301 or IC302 or IC303
Yes
End

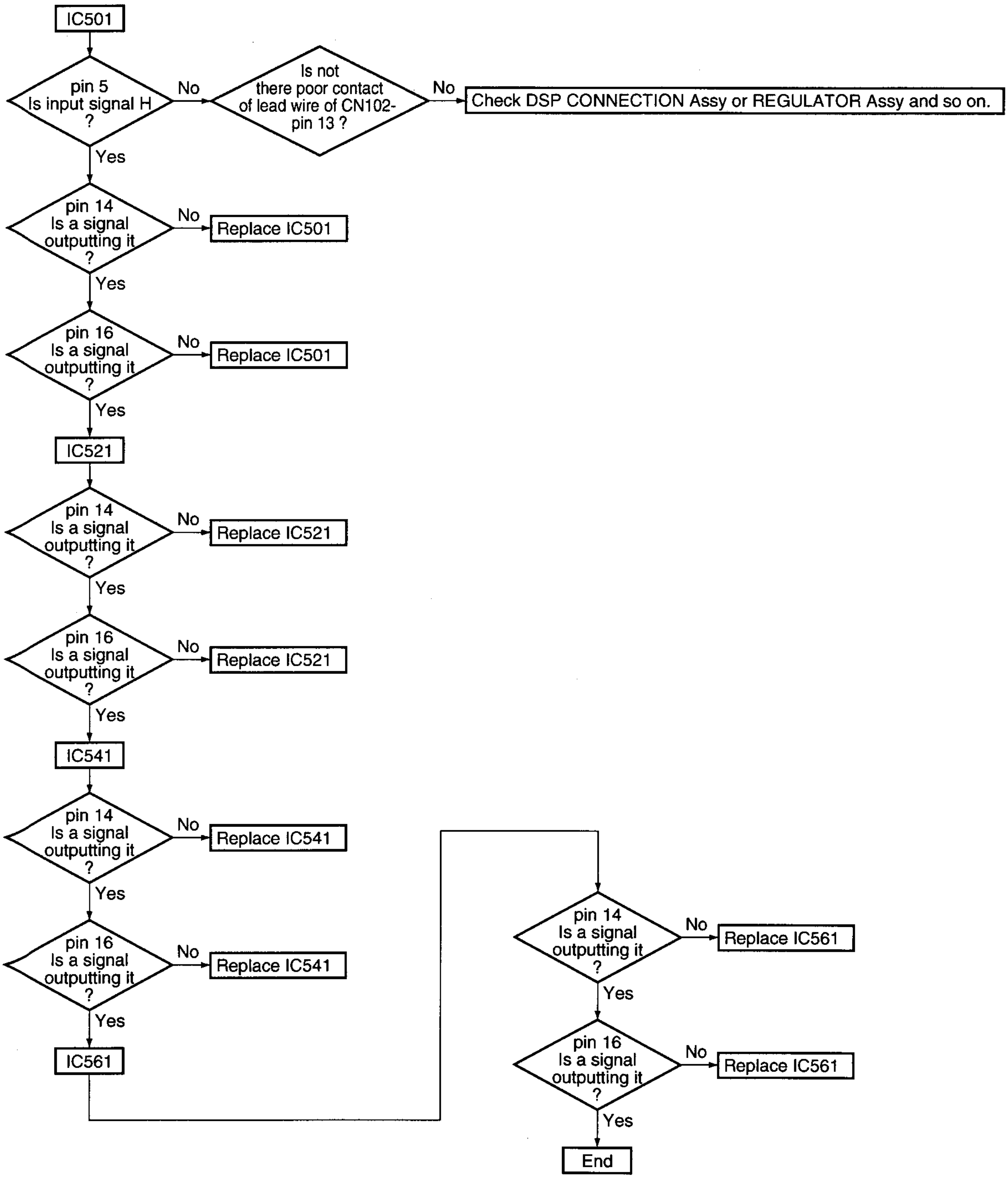
Step 7


IC401
pin 4
Is outputtingit ?
No
Is not
there poor contact
of lead wire of IC401
or IC451
?
No
Replace IC401 or IC451
Yes
pin 5
Is outputtingit ?
No
Is not
there poor contact
of lead wire of IC401
or IC451
?
No
Replace IC401 or IC451
Yes
pin 6
Is outputtingit ?
No
Is not
there poor contact
of lead wire of IC401
or IC451
?
No
Replace IC401 or IC451
Yes
End

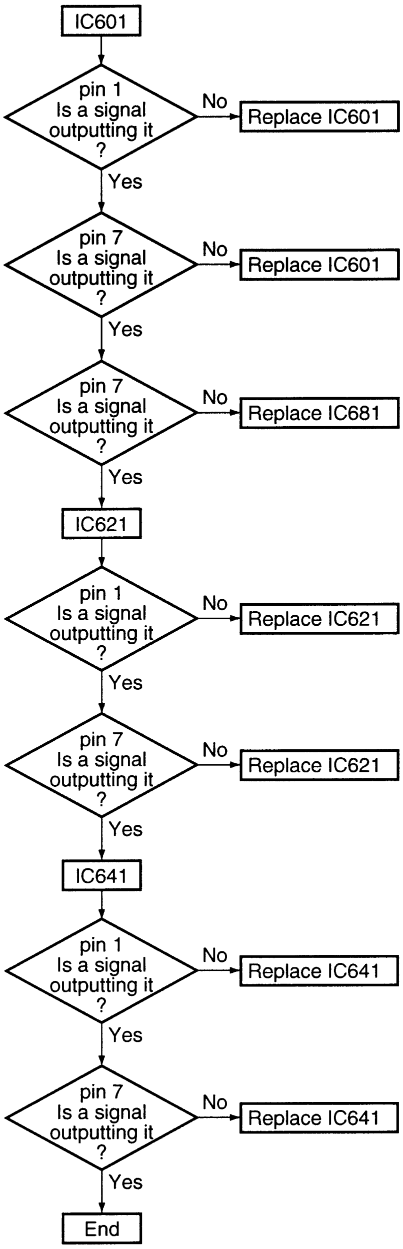
Step 8


IC503
pin 4
Is outputtingit ?
No
Replace IC503
Yes
End

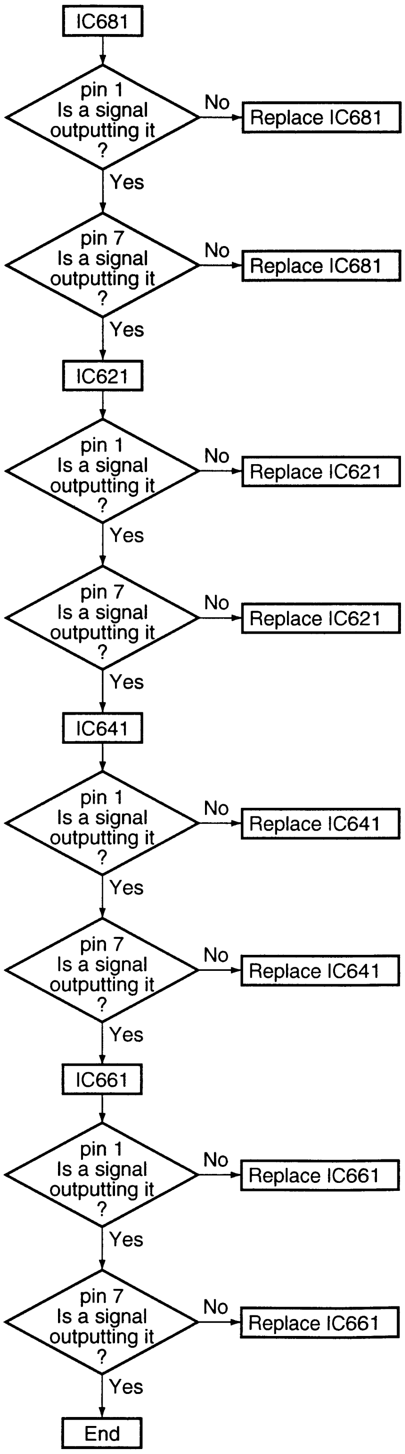
Step 9


IC501
pin 5
Is input signal H
?
No
Is not
there poor contact
of lead wire of CN102-
pin 13 ?
No
Check DSP CONNECTION Assy or REGULATOR Assy and so on.
Yes
pin 14
Is a signal
outputting it
?
No
Replace IC501
Yes
pin 16
Is a signal
outputting it
?
No
Replace IC501
Yes
IC521
pin 14
Is a signal
outputting it
?
No
Replace IC521
Yes
pin 16
Is a signal
outputting it
?
No
Replace IC521
Yes
IC541
pin 14
Is a signal
outputting it
?
No
Replace IC541
Yes
pin 16
Is a signal
outputting it
?
No
Replace IC541
Yes
IC561
pin 14
Is a signal
outputting it
?
No
Replace IC561
Yes
pin 16
Is a signal
outputting it
?
No
Replace IC561
Yes
End

Step 10


IC601
pin 1
Is a signal outputting it ?
No
Replace IC601
Yes
pin 7
Is a signal outputting it ?
No
Replace IC601
Yes
pin 7
Is a signal outputting it ?
No
Replace IC681
Yes
IC621
pin 1
Is a signal outputting it ?
No
Replace IC621
Yes
pin 7
Is a signal outputting it ?
No
Replace IC621
Yes
IC641
pin 1
Is a signal outputting it ?
No
Replace IC641
Yes
pin 7
Is a signal outputting it ?
No
Replace IC641
Yes
End

Step 11


IC681
pin 1
Is a signal outputting it ?
No
Replace IC681
Yes
pin 7
Is a signal outputting it ?
No
Replace IC681
Yes
IC621
pin 1
Is a signal outputting it ?
No
Replace IC621
Yes
pin 7
Is a signal outputting it ?
No
Replace IC621
Yes
IC641
pin 1
Is a signal outputting it ?
No
Replace IC641
Yes
pin 7
Is a signal outputting it ?
No
Replace IC641
Yes
IC661
pin 1
Is a signal outputting it ?
No
Replace IC661
Yes
pin 7
Is a signal outputting it ?
No
Replace IC661
Yes
End

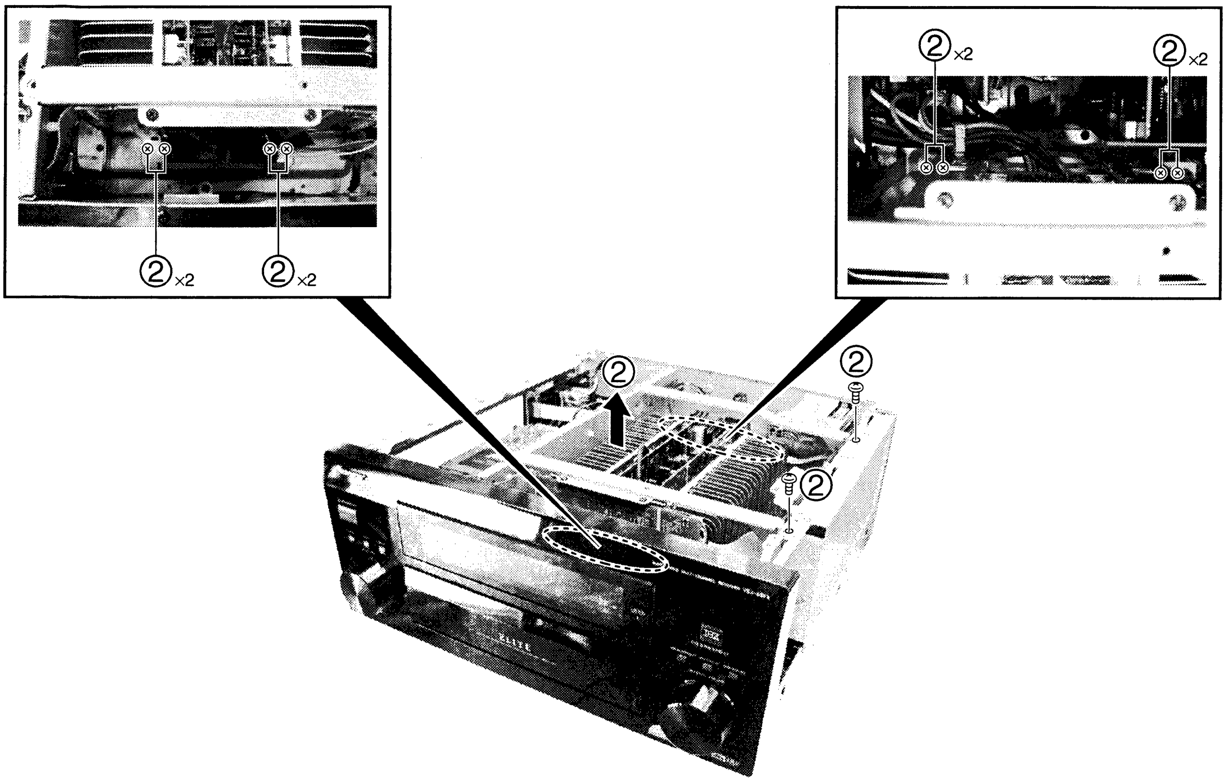
7.1.4 DISASSEMBLY

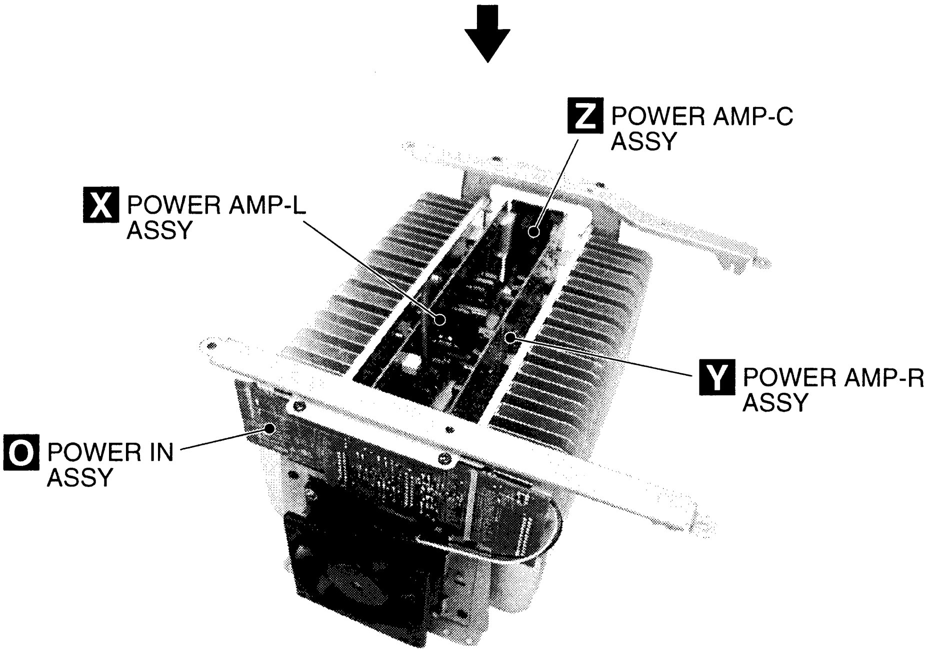
1 Bonnet and Heat Sink Block

① Remove the bonnet case (screws × 23)

② Remove the heat sink block (screws × 10, connectors × 8)

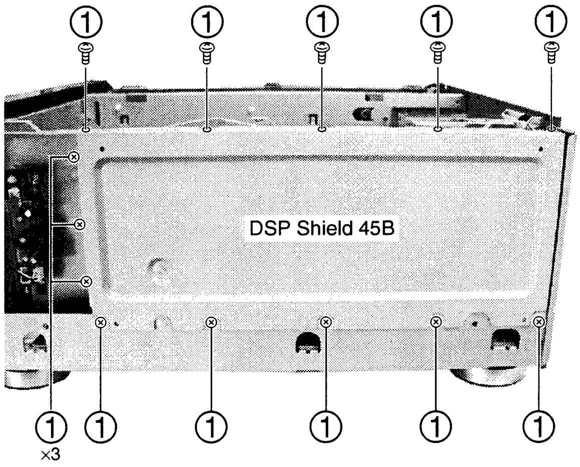
Note : This photograph shows other models.
However, the work method is the same.


②×2
②×2
②×2
②×2
②
②
②

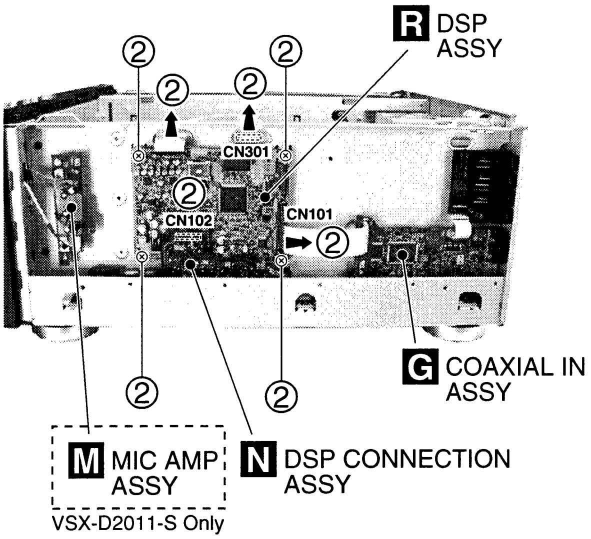

Z POWER AMP-C ASSY
X POWER AMP-L ASSY
Y POWER AMP-R ASSY
O POWER IN ASSY

2 DSP Block

① Remove the DSP shield 45B (screws × 13)

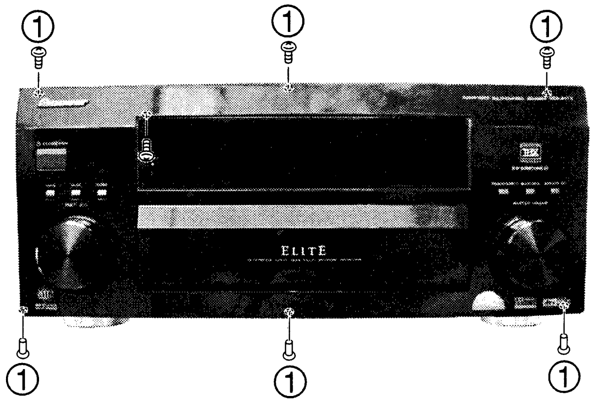

①
①
①
①
①
DSP Shield 45B
① ×3
①
①
①
①
①

② Remove the DSP ASSY
(screws × 4, connectors × 4)


R DSP ASSY
②
②
②
②
CN301
②
CN102
CN101
②
G COAXIAL IN ASSY
②
②
M MIC AMP ASSY
VSX-D2011-S Only
N DSP CONNECTION ASSY

3 Front Panel Block

① Remove six screws

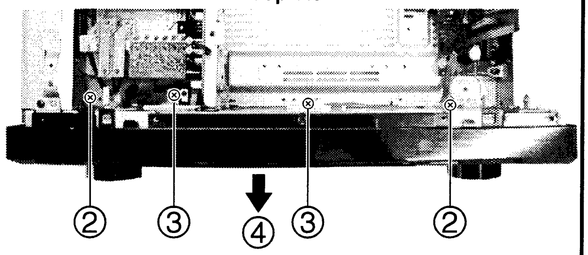

①
①
①
ELITE
①
①
①

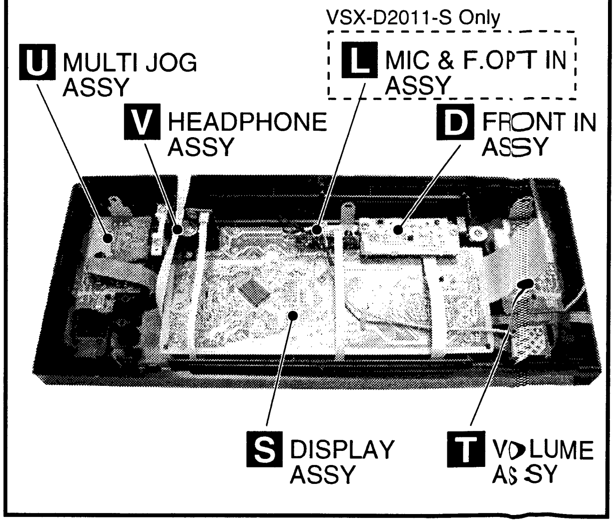
② Remove two screws

③ Remove two screws

④ Remove the front panel block

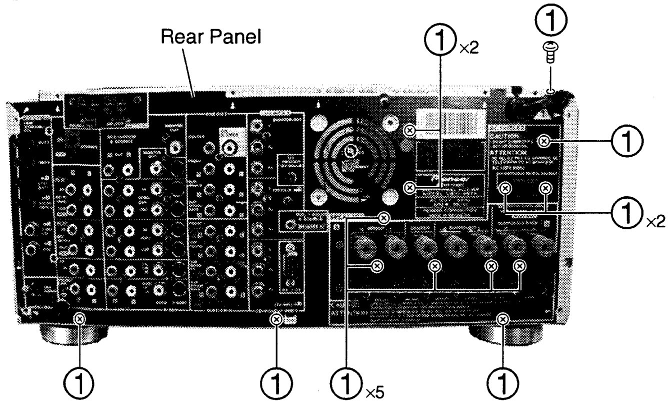
● Top View




VSX-D2011-S Only
U MULTI JOG ASSY
L MIC & F.OPT IN ASSY
V HEADPHONE ASSY
D FRONT IN ASSY
S DISPLAY ASSY
T VOLUME ASSY

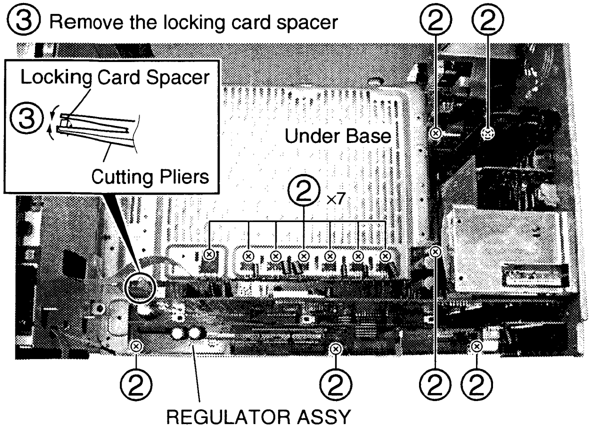
4 Rear Panel Block

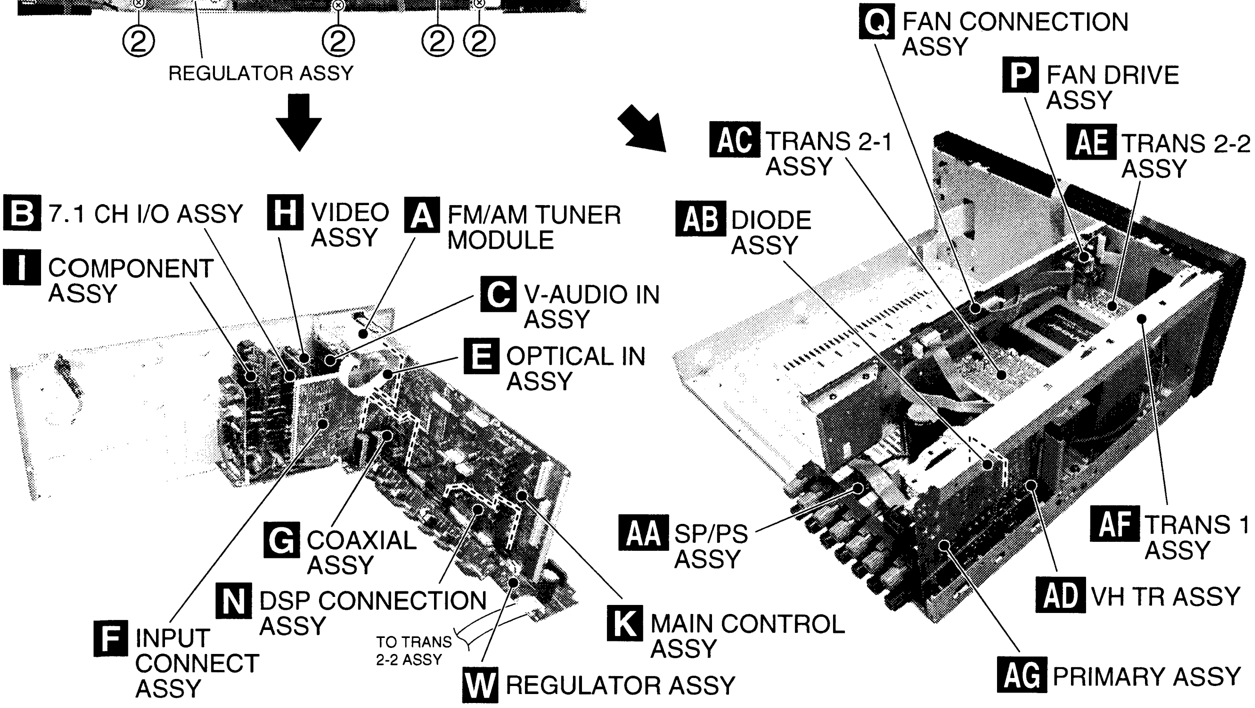
① Remove 14 screws


Rear Panel
①×2
①
①
①×2
①
①
①×5
①

② Remove 13 screws

③ Remove the locking card spacer


②
②
Locking Card Spacer
③
Cutting Pliers
Under Base
② ×7
②
②
②
②
REGULATOR ASSY


B 7.1 CH I/O ASSY
H VIDEO ASSY
A FM/AM TUNER MODULE
I COMPONENT ASSY
C V-AUDIO IN ASSY
E OPTICAL IN ASSY
G COAXIAL ASSY
N DSP CONNECTION ASSY
F INPUT CONNECT ASSY
TO TRANS 2-2 ASSY
W REGULATOR ASSY
K MAIN CONTROL ASSY
Q FAN CONNECTION ASSY
P FAN DRIVE ASSY
AC TRANS 2-1 ASSY
AE TRANS 2-2 ASSY
AB DIODE ASSY
AA SP/PS ASSY
AF TRANS 1 ASSY
AD VH TR ASSY
AG PRIMARY ASSY

7.2 PARTS

7.2.1 IC

- The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

● List of IC

PDSPC56367PV150, PD5770C8, PD5771A, BU4094BCF, PCM2902EG

■ DSPC56367PV150 (DSP ASSY: IC301)

• DSP Microcomputer

● Pin Function

No.	Pin Name	I/O	Function
1	SCK1	I	Microcomputer communication clock
2	SS	I	Microcomputer communication chip select
3	HREQ	O	Microcomputer communication request
4	SDO0	O	Digital audio data (Front L/R)
5	SDO1	O	Digital audio data (Surround L/R)
6	SDO2	O	Digital audio data (Center/Subwoofer)
7	SDO3	O	Digital audio data (Front L/R)
8	VCCS	–	Interface power supply (3.3V)
9	GNDS	–	Interface GND
10	SDI1	I	Digital audio data (Front L/R)
11	SDI0	I	Digital audio data (Surround L/R)
12	FST	O	Digital audio LR clock
13	FSR	I	Digital audio LR clock
14	SCKT	O	Digital audio Bit clock
15	SCKR	I	Digital audio Bit clock
16	HCKT	I	Digital audio master clock
17	HCKR	I	Digital audio master clock
18	VCCQL	–	Quiet core power supply (1.8V)
19	GNDQ	–	Quiet GND
20	VCCQH	–	Quiet external power supply (3.3V)
21	HDS	I	Host data strobe
22	HRW	I	Host write data
23	HACK	I	Host acknowledge
24	HOREQ	O	Host request
25	VCCS	–	Interface power supply (3.3V)
26	GNDS	–	Interface GND
27	ADO	O	Digital audio data output
28	ACI	I	Digital audio master clock input
29	TIO0	I	Timer input
30	HCS	I	Host chip select
31	HA9	O	General-purpose port
32	HA8	O	DSP master switch
33	HAS	O	General-purpose port
34	HAD7	O	General-purpose port
35	HAD6	O	General-purpose port
36	HAD5	O	General-purpose port
37	HAD4	O	General-purpose port
38	VCCH	–	Host power supply (3.3V)
39	GNDH	–	Host GND
40	HAD3	O	General-purpose port
41	HAD2	O	General-purpose port
42	HAD1	O	General-purpose port
43	HAD0	O	General-purpose port
44	RESET	I	Reset
45	VCCP	–	PLL power supply (1.8V)
46	PCAP	I	PLL capacitor connection pin
47	GNDP	–	PLL GND
48	SDI0_1	I	Digital audio data (Surroundback L/R)

No.	Pin Name	I/O	Function
49	VCCQH	–	Quiet external power supply (3.3V)
50	FST_1	I	Digital audio LR clock
51	AA2	O	External memory chip select
52	CAS	O	Column address
53	SCKT_1	I	Digital audio Bit clock
54	GNDQ	–	Quiet GND
55	EXTAL	I	External clock input
56	VCCQL	–	Quiet core power supply (1.8V)
57	VCCC	–	Bus control power supply (3.3V)
58	GNDC	–	Bus control GND
59	FSR_1	O	Digital audio LR clock
60	SCKR_1	O	Digital audio Bit clock
61	PINIT	I	PLL initial pin
62	TA	I	Transfer acknowledge
63	BR	O	Bus request
64	BB	I	Bus busy
65	VCCC	–	Bus control power supply (3.3V)
66	GNDC	–	Bus control GND
67	WR	O	External memory read enable
68	RD	O	External memory write enable
69	AA1	O	Address control (Not used)
70	AA0	O	Address control (Not used)
71	BG	O	Bus control
72	A0	O	External memory address
73	A1	O	External memory address
74	VCCA	–	Address bus power supply (3.3V)
75	GNDA	–	Address bus GND
76	A2	O	External memory address
77	A3	O	External memory address
78	A4	O	External memory address
79	A5	O	External memory address
80	VCCA	–	Address bus power supply (3.3V)
81	GNDA	–	Address bus GND
82	A6	O	External memory address
83	A7	O	External memory address
84	A8	O	External memory address
85	A9	O	External memory address
86	VCCA	–	Address bus power supply (3.3V)
87	GNDA	–	Address bus GND
88	A10	O	External memory address
89	A11	O	External memory address
90	GNDQ	–	Quiet GND
91	VCCQL	–	Quiet core power supply (1.8V)
92	A12	O	External memory address
93	A13	O	External memory address
94	A14	O	External memory address
95	VCCQH	–	Quiet external power supply (3.3V)
96	GNDA	–	Address bus GND

No.	Pin Name	I/O	Function
97	A15	O	External memory address
98	A16	O	External memory address
99	A17	O	External memory address
100	D0	I/O	External memory data
101	D1	I/O	External memory data
102	D2	I/O	External memory data
103	VCCD	–	Data bus power supply (3.3V)
104	GNDD	–	Data bus GND
105	D3	I/O	External memory data
106	D4	I/O	External memory data
107	D5	I/O	External memory data
108	D6	I/O	External memory data
109	D7	I/O	External memory data
110	D8	I/O	External memory data
111	VCCD	–	Data bus power supply (3.3V)
112	GNDD	–	Data bus GND
113	D9	I/O	External memory data
114	D10	I/O	External memory data
115	D11	I/O	External memory data
116	D12	I/O	External memory data
117	D13	I/O	External memory data
118	D14	I/O	External memory data
119	VCCD	–	Data bus power supply (3.3V)
120	GNDD	–	Data bus GND
121	D15	I/O	External memory data
122	D16	I/O	External memory data
123	D17	I/O	External memory data
124	D18	I/O	External memory data
125	D19	I/O	External memory data
126	VCCQL	–	Quiet core power supply (1.8V)
127	GNDQ	–	Quiet GND
128	D20	I/O	External memory data
129	VCCD	–	Data bus power supply (3.3V)
130	GNDD	–	Data bus GND
131	D21	I/O	External memory data
132	D22	I/O	External memory data
133	D23	I/O	External memory data
134	MODD	I	Mode select D
135	MODC	I	Mode select C
136	MODB	I	Mode select B
137	MODA	I	Mode select A
138	SDI1_1	I	Digital audio data (Center/Subwoofer)
139	TDO	O	JTAG data output
140	TDI	I	JTAG data input
141	TCK	I	JTAG test clock
142	TMS	I	JTAG mode select
143	MOSI	I	Microcomputer communication data input
144	MISO	O	Microcomputer communication data output

DSPC56367PV150 (DSP ASSY: IC401)

- **DSP Microcomputer**

● Pin Function

No.	Pin Name	I/O	Function
1	SCK1	I	Microcomputer communication clock
2	SS	I	Microcomputer communication chip select
3	HREQ	O	Microcomputer communication request
4	SDO0	O	Digital audio data (Front L/R)
5	SDO1	O	Digital audio data (Surround L/R)
6	SDO2	O	Digital audio data (Center/Subwoofer)
7	SDO3	O	Digital audio data (Front L/R)
8	VCCS	–	Interface power supply (3.3V)
9	GNDS	–	Interface GND
10	SDI1	I	Digital audio data (Front L/R)
11	SDI0	I	Digital audio data (Surround L/R)
12	FST	O	Digital audio LR clock
13	FSR	I	Digital audio LR clock
14	SCKT	O	Digital audio Bit clock
15	SCKR	I	Digital audio Bit clock
16	HCKT	I	Digital audio master clock
17	HCKR	I	Digital audio master clock
18	VCCQL	–	Quiet core power supply (1.8V)
19	GNDQ	–	Quiet GND
20	VCCQH	–	Quiet external power supply (3.3V)
21	HDS	I	Host data strobe
22	HRW	I	Host write data
23	HACK	I	Host acknowledge
24	HOREQ	O	Host request
25	VCCS	–	Interface power supply (3.3V)
26	GNDS	–	Interface GND
27	ADO	O	Digital audio data output
28	ACI	I	Digital audio master clock input
29	TIO0	I	Timer input
30	HCS	I	Host chip select
31	HA9	O	General-purpose port
32	HA8	O	General-purpose port
33	HAS	O	General-purpose port
34	HAD7	O	General-purpose port
35	HAD6	O	General-purpose port
36	HAD5	O	General-purpose port
37	HAD4	O	General-purpose port
38	VCCH	–	Host power supply (3.3V)
39	GNDH	–	Host GND
40	HAD3	O	DVD-A switch
41	HAD2	O	DIR oscillation stop
42	HAD1	O	LSSN modxe (LFE addition)
43	HAD0	O	Analog mode
44	RESET	I	Reset
45	VCCP	–	PLL power supply (1.8V)
46	PCAP	I	PLL capacitor connection pin
47	GNDP	–	PLL GND
48	SDI0_1	I	Digital audio data (Surroundback L/R)

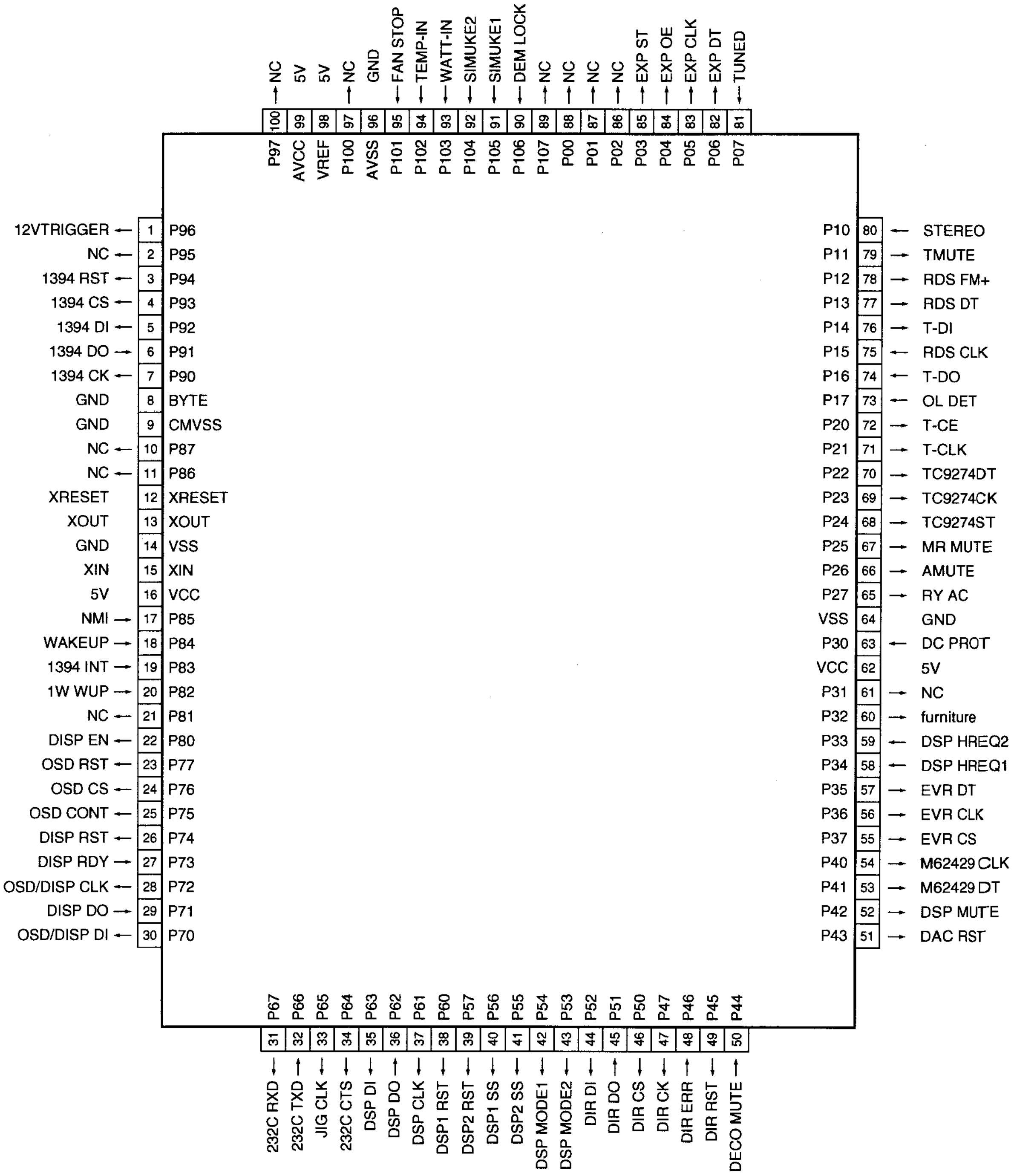
No.	Pin Name	I/O	Function
49	VCCQH	–	Quiet external power supply (3.3V)
50	FST_1	I	Digital audio LR clock
51	AA2	O	External memory chip select
52	CAS	O	Column address
53	SCKT_1	I	Digital audio Bit clock
54	GNDQ	–	Quiet GND
55	EXTAL	I	External clock input
56	VCCQL	–	Quiet core power supply (1.8V)
57	VCCC	–	Bass control power supply (3.3V)
58	GNDC	–	Bass control GND
59	FSR_1	O	Digital audio LR clock
60	SCKR_1	O	Digital audio Bit clock
61	PINIT	I	PLL initial pin
62	TA	I	Transfer acknowledge
63	BR	O	Bus request
64	BB	I	Bus busy
65	VCCC	–	Bus control power supply (3.3V)
66	GNDC	–	Bus control GND
67	WR	O	External memory read enable
68	RD	O	External memory write enable
69	AA1	O	Address control (Not used)
70	AA0	O	Address control (Not used)
71	BG	O	Bus control
72	A0	O	External memory address
73	A1	O	External memory address
74	VCCA	–	Address bus power supply (3.3V)
75	GNDA	–	Address bus GND
76	A2	O	External memory address
77	A3	O	External memory address
78	A4	O	External memory address
79	A5	O	External memory address
80	VCCA	–	Address bus power supply (3.3V)
81	GNDA	–	Address bus GND
82	A6	O	External memory address
83	A7	O	External memory address
84	A8	O	External memory address
85	A9	O	External memory address
86	VCCA	–	Address bus power supply (3.3V)
87	GNDA	–	Address bus GND
88	A10	O	External memory address
89	A11	O	External memory address
90	GNDQ	–	Quiet GND
91	VCCQL	–	Quiet core power supply (1.8V)
92	A12	O	External memory address
93	A13	O	External memory address
94	A14	O	External memory address
95	VCCQH	–	Quiet external power supply (3.3V)
96	GNDA	–	Address bus GND

No.	Pin Name	I/O	Function
97	A15	O	External memory address
98	A16	O	External memory address
99	A17	O	External memory address
100	D0	I/O	External memory data
101	D1	I/O	External memory data
102	D2	I/O	External memory data
103	VCCD	–	Data bus power supply (3.3V)
104	GNDD	–	Data bus GND
105	D3	I/O	External memory data
106	D4	I/O	External memory data
107	D5	I/O	External memory data
108	D6	I/O	External memory data
109	D7	I/O	External memory data
110	D8	I/O	External memory data
111	VCCD	–	Data bus power supply (3.3V)
112	GNDD	–	Data bus GND
113	D9	I/O	External memory data
114	D10	I/O	External memory data
115	D11	I/O	External memory data
116	D12	I/O	External memory data
117	D13	I/O	External memory data
118	D14	I/O	External memory data
119	VCCD	–	Data bus power supply (3.3V)
120	GNDD	–	Data bus GND
121	D15	I/O	External memory data
122	D16	I/O	External memory data
123	D17	I/O	External memory data
124	D18	I/O	External memory data
125	D19	I/O	External memory data
126	VCCQL	–	Quiet core power supply (1.8V)
127	GNDQ	–	Quiet GND
128	D20	I/O	External memory data
129	VCCD	–	Data bus power supply (3.3V)
130	GNDD	–	Data bus GND
131	D21	I/O	External memory data
132	D22	I/O	External memory data
133	D23	I/O	External memory data
134	MODD	I	Mode select D
135	MODC	I	Mode select C
136	MODB	I	Mode select B
137	MODA	I	Mode select A
138	SDI1_1	I	Digital audio data (Center/Subwoofer)
139	TDO	O	JTAG data output
140	TDI	I	JTAG data input
141	TCK	I	JTAG test clock
142	TMS	I	JTAG mode select
143	MOSI	I	Microcomputer communication data input
144	MISO	O	Microcomputer communication data output

■ PD5770C8 (MAIN CONTROL ASSY: IC501)

• Main Microcomputer

● Pin Assignment (Top view)


12VTRIGGER 1 P96
NC 2 P95
1394 RST 3 P94
1394 CS 4 P93
1394 DI 5 P92
1394 DO 6 P91
1394 CK 7 P90
GND 8 BYTE
GND 9 CMVSS
NC 10 P87
NC 11 P86
XRESET 12 XRESET
XOUT 13 XOUT
GND 14 VSS
XIN 15 XIN
5V 16 VCC
NMI 17 P85
WAKEUP 18 P84
1394 INT 19 P83
1W WUP 20 P82
NC 21 P81
DISP EN 22 P80
OSD RST 23 P77
OSD CS 24 P76
OSD CONT 25 P75
DISP RST 26 P74
DISP RDY 27 P73
OSD/DISP CLK 28 P72
DISP DO 29 P71
OSD/DISP DI 30 P70
31 P67 232C RXD
32 P66 232C TXD
33 P65 JIG CLK
34 P64 232C CTS
35 P63 DSP DI
36 P62 DSP DO
37 P61 DSP CLK
38 P60 DSP1 RST
39 P57 DSP2 RST
40 P56 DSP1 SS
41 P55 DSP2 SS
42 P54 DSP MODE1
43 P53 DSP MODE2
44 P52 DIR DI
45 P51 DIR DO
46 P50 DIR CS
47 P47 DIR CK
48 P46 DIR ERR
49 P45 DIR RST
50 P44 DECO MUTE
P43 51 DAC RST
P42 52 DSP MUTE
P41 53 M62429 DT
P40 54 M62429 CLK
P37 55 EVR CS
P36 56 EVR CLK
P35 57 EVR DT
P34 58 DSP HREQ1
P33 59 DSP HREQ2
P32 60 furniture
P31 61 NC
VCC 62 5V
P30 63 DC PROT
VSS 64 GND
P27 65 RY AC
P26 66 AMUTE
P25 67 MR MUTE
P24 68 TC9274ST
P23 69 TC9274CK
P22 70 TC9274DT
P21 71 T-CLK
P20 72 T-CE
P17 73 OL DET
P16 74 T-DO
P15 75 RDS CLK
P14 76 T-DI
P13 77 RDS DT
P12 78 RDS FM+
P11 79 TMUTE
P10 80 STEREO
81 P07 TUNED
82 P06 EXP DT
83 P05 EXP CLK
84 P04 EXP OE
85 P03 EXP ST
86 P02 NC
87 P01 NC
88 P00 NC
89 P107 NC
90 P106 DEM LOCK
91 P105 SIMUKE1
92 P104 SIMUKE2
93 P103 WATT-IN
94 P102 TEMP-IN
95 P101 FAN STOP
96 AVSS GND
97 P100 NC
98 VREF 5V
99 AVCC 5V
100 P97 NC

● Pin Function

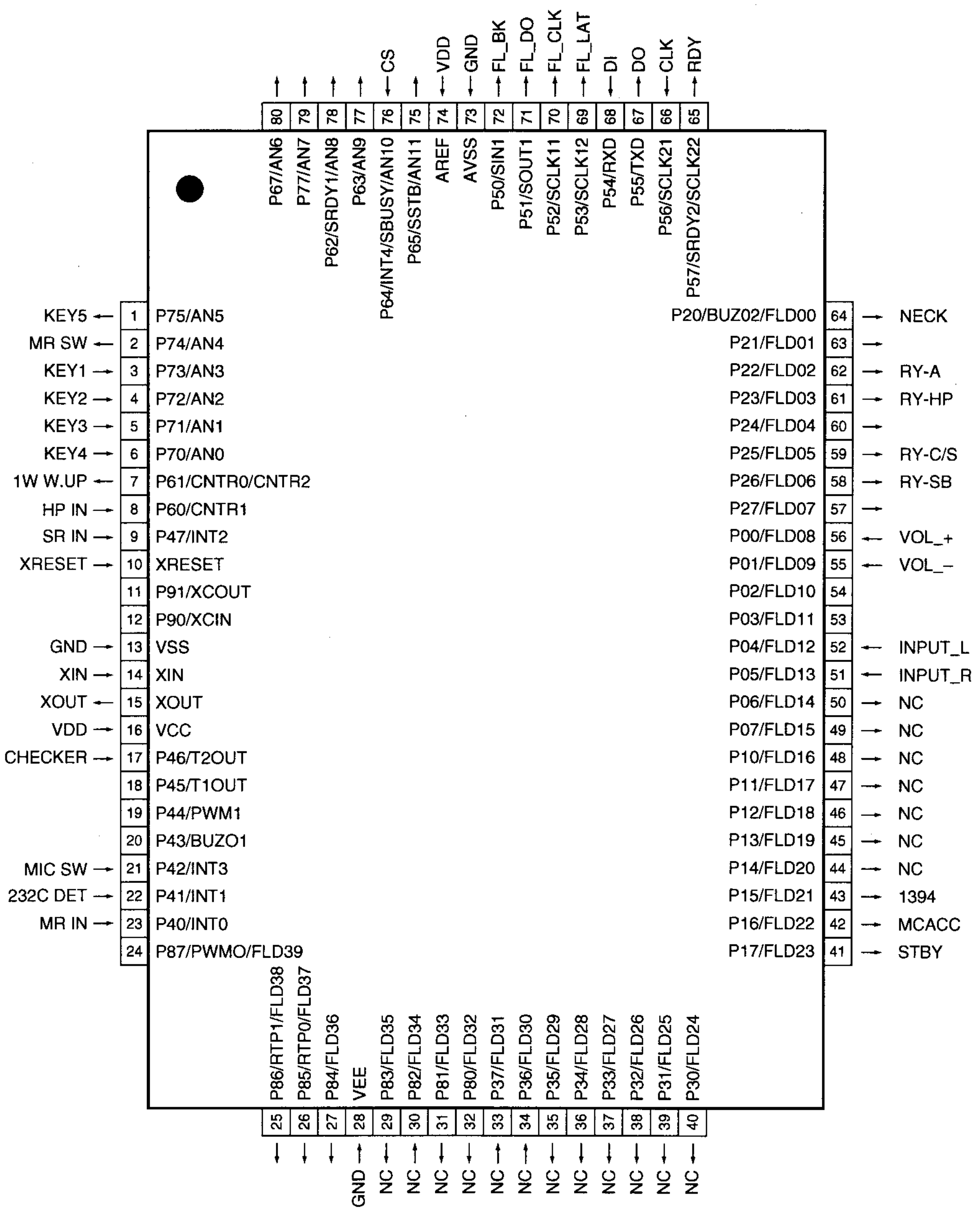
No.	Pin Name	I/O	Pin Function	Active
1	12VTRIGGER	O	"H" at O	
2	–	O	NC "L" fixed.	
3	1394 RST	O	Standby for 1394 (Not used) "L" fixed.	
4	1394 CS	O	Standby for 1394 (Not used) "L" fixed.	
5	1394 DI	O	Standby for 1394 (Not used) "L" fixed.	
6	1394 DO	I	Standby for 1394 (Not used) Standby with the circuit.	
7	1394 CK	O	Standby for 1394 (Not used) "L" fixed.	
8	GND	–	Ground	
9	CNVSS	–	5.1kΩ pulldown	
10	–	O	L" fixed	
11	–	O	L" fixed	
12	XRESET	–	Reset	
13	XOUT	–	Oscillator	
14	GND	–	Ground	
15	XIN	–	Oscillator	
16	5V	–	5V power supply	
17	NMI	I	Cannot use it as usual input port (100kΩ pullup)	
18	WAKEUP	I	Wakeup	H
19	1394 INT	I	Standby for 1394 (Not used) Standby with the circuit.	
20	1W WUP	I	Wakeup signal at standby (from the display microcomputer) (pulldown)	H
21	–	O	L" fixed	
22	DISP EN	O	Communication enabling signal to the display microcomputer	H
23	OSD RST	O	OSD-IC reset signal L: reset, H: release reset	
24	OSD CS	O	OSD-IC chip select signal	H
25	OSD CONT.	O	At data transfer to the OSD-IC: "H"	
26	DISP RST	O	Display microcomputer reset signal L: reset, H: release reset (pulldown)	
27	DISP RDY	I	Communication enabling signal from the display microcomputer	H
28	OSD/DISP CLK	O	Communication clock signal with the OSD-IC/display microcomputer	
29	DISP DO	I	Communication data in signal with the display microcomputer (N ch open drain)	
30	OSD/DISP DI	O	Communication data out signal with the OSD-IC/display microcomputer (N ch open drain: pullup)	
31	232C RXD	O	For 232C rewriting (data output)	
32	232C TXD	I	For 232C rewriting (data input)	
33	CLK	O	Not used	
34	232C CTS	O	For 232C rewriting (communication enabling)	
35	DSP DI	O	Communication data out signal with the DSP1 microcomputer	
36	DSP DO	I	Communication data in signal with the DSP2 microcomputer	
37	DSP CLK	O	Communication clock signal with the DSP microcomputer	
38	DSP1 RST	O	DSP1 microcomputer reset signal L: reset, H: release reset	
39	DSP2 RST	O	DSP2 microcomputer reset signal L: reset, H: release reset	
40	DSP1 SS	O	Slave select signal to DSP1 microcomputer	L
41	DSP2 SS	O	Slave select signal to DSP2 microcomputer	L
42	DSP MODE1	O	Mode selection of DSP1 microcomputer (ROM/RAM) H: ROM mode, L: RAM (PPP) mode	H
43	DSP MODE2	O	Mode selection of DSP2 microcomputer (ROM/RAM) H: ROM mode, L: RAM (PPP) mode	H
44	DIR DI	O	Communication data out signal with the DIR	
45	DIR DO	I	Communication data in signal with the DIR/DAC	
46	DIR CS	O	Communication chip select signal with the DIR/DAC	
47	DIR CK	O	Communication clock signal with the DIR/DAC	
48	DIR ERR	I	Lock/Unlock signal	
49	DIR RST	O	DIR reset signal	
50	DECO MUTE	I	Boot success detecting port of 1st DSP	

No.	Pin Name	I/O	Pin Function	Active
51	DAC RST	O	DAC/AD reset	
52	DSP MUTE	O	DSP Assy mute	H
53	M62429 DT	O	Data signal for multi room volume IC control	
54	M62429 CLK	O	Clock signal for multi room volume IC control	
55	EVR CS	O	Chip select signal for erectronic volume	
56	EVR CLK	O	Clock signal for erectronic volume	
57	EVR DT	O	Data signal for erectronic volume	
58	DSP HREQ1	I	Error detection signal of DSP1 microcomputer	
59	DSP HREQ2	I	Error detection signal of DSP2 microcomputer	
60	furniture	O	Furniture control signal	
61	–	O	L" fixed	
62	5V	–	5V power supply	
63	DC PROT	I	DC detection L: Detection	L
64	GND	–	Ground	
65	RC-AC	O	AC relay ON/OFF	H
66	AMUTE	O	System mute L: Mute ON	L
67	MRMUTE	O	Multi room mute L: Mute ON	L
68	tc9274f-st	O	Function SW control (STEREO)	
69	tc9274f-ck	O	Function SW control (CLOCK)	
70	tc9274f-dt	O	Function SW control (DATA)	
71	TUNER CLK	O	Clock signal of tuner control	
72	TUNER CE	O	Chip select signal of tuner control	
73	OL DET	I	Amp. overload detection L: Detection	L
74	TUNER DO	I	Data input signal of tuner control (pullup)	
75	RDS CLK	O	L" fixed	
76	TUNER DI	I	Data output signal of tuner control	
77	RDS DT	O	L" fixed	
78	RDS FM+	O	L" fixed	
79	TMUTE	O	Tuner mute	H
80	STEREO	I	L: STEREO (pullup)	L
81	TUNED	I	L: TUNED (pullup)	L
82	EXP DT	O	Data signal of expansion IC control	
83	EXP CLK	O	Clock signal of expansion IC control	
84	EXP OE	O	Output enable signal of expansion IC control	
85	EXP ST	O	Chip clock signal of expansion IC control	
86	–	O	NC	
87	–	O	NC	
88	–	O	NC	
89	–	O	NC	
90	DEM LOCK	I	Not used	
91	SIMUKE1	I	Destination read 1	
92	SIMUKE2	I	Destination read 2	
93	WATT-IN	I	Wattage detection Level detection with AD	A/D
94	TEMP-IN	I	Temperature detection Level detection with AD	A/D
95	FAN STOP	I	Fan forced stop detection	H
96	AVSS	–	Connect to VSS	
97	–	O	NC	L
98	VREF	–	Connect to VCC	
99	AVCC	–	Connect to VCC	
100	–	O	NC	

PD5771A (DISPLAY ASSY: IC3000)

- **Display Microcomputer**

● Pin Assignment (Top view)



80 P67/AN6
79 P77/AN7
78 P62/SRDY1/AN8
77 P63/AN9
76 P64/INT4/SBUSY/AN10 CS
75 P65/SSTB/AN11
74 AREF VDD
73 AVSS GND
72 P50/SIN1 FL_BK
71 P51/SOUT1 FL_DO
70 P52/SCLK11 FL_CLK
69 P53/SCLK12 FL_LAT
68 P54/RXD DI
67 P55/TXD DO
66 P56/SCLK21 CLK
65 P57/SRDY2/SCLK22 RDY
KEY5 1 P75/AN5
MR SW 2 P74/AN4
KEY1 3 P73/AN3
KEY2 4 P72/AN2
KEY3 5 P71/AN1
KEY4 6 P70/AN0
1W W.UP 7 P61/CNTR0/CNTR2
HP IN 8 P60/CNTR1
SR IN 9 P47/INT2
XRESET 10 XRESET
11 P91/XCOUT
12 P90/XCIN
GND 13 VSS
XIN 14 XIN
XOUT 15 XOUT
VDD 16 VCC
CHECKER 17 P46/T2OUT
18 P45/T1OUT
19 P44/PWM1
20 P43/BUZO1
MIC SW 21 P42/INT3
232C DET 22 P41/INT1
MR IN 23 P40/INT0
24 P87/PWMO/FLD39
25 P86/RTP1/FLD38
26 P85/RTP0/FLD37
27 P84/FLD36
28 VEE GND
29 P83/FLD35 NC
30 P82/FLD34 NC
31 P81/FLD33 NC
32 P80/FLD32 NC
33 P37/FLD31 NC
34 P36/FLD30 NC
35 P35/FLD29 NC
36 P34/FLD28 NC
37 P33/FLD27 NC
38 P32/FLD26 NC
39 P31/FLD25 NC
40 P30/FLD24 NC
P17/FLD23 41 STBY
P16/FLD22 42 MCACC
P15/FLD21 43 1394
P14/FLD20 44 NC
P13/FLD19 45 NC
P12/FLD18 46 NC
P11/FLD17 47 NC
P10/FLD16 48 NC
P07/FLD15 49 NC
P06/FLD14 50 NC
P05/FLD13 51 INPUT_R
P04/FLD12 52 INPUT_L
P03/FLD11 53
P02/FLD10 54
P01/FLD09 55 VOL_–
P00/FLD08 56 VOL_+
P27/FLD07 57
P26/FLD06 58 RY-SB
P25/FLD05 59 RY-C/S
P24/FLD04 60
P23/FLD03 61 RY-HP
P22/FLD02 62 RY-A
P21/FLD01 63
P20/BUZ02/FLD00 64 NECK

● Pin Function

No.	Pin Name	I/O	Pin Function	No.	Pin Name	I/O	Pin Function
1	KEY5	I	KEY AD input	41	STANDBY	O	Standby LED
2	MR SW	O	Multi room input Pioneer/others L: Pioneer	42	MCACC	O	MCACC LED
3	KEY1	I	KEY AD input	43	1394	O	1394 LED
4	KEY2			44	NC	O	Non connection
5	KEY3			45	NC		
6	KEY4			46	NC		
7	1W WUP	O	1W correspondence main wakeup	47	NC		
8	HP	I	Headphone detection (active: H)	48	NC		
9	SR IN	I	Remote control input of main room	49	NC		
10	RESET	–	Reset input from the main microcomputer	50	NC		
11	NC	O	Non connection	51	INPUT_R	I	Input selector RIGHT
12	NC			52	INPUT_L	I	Input selector LEFT
13	Vss	–	Ground	53	NC	O	Non connection
14	XIN	–	Oscillator	54	NC	O	Non connection
15	XOUT	–	Oscillator	55	VOL_–	I	Volume –
16	Vcc	–	Power supply 5V	56	VOL_+	I	Volume +
17	CHECKER	I	Checker mode detection (10kΩ pulldown)	57	NC	O	Non connection
18	NC	O	Non connection	58	RY-SB	O	Surround back/SP-B relay ON/OFF (active: H)
19	NC			59	RY-C/S	O	C/S relay ON/OFF (active: H)
20	NC			60	NC	O	Non connection
21	MIC SW	I	MIC detection	61	RY-HP	O	Headphone relay ON/OFF (active: H)
22	232C DET	I	232C signal input detection	62	RY-A	O	Speaker A relay ON/OFF (active: H)
23	MR IN	I	Remote control input of sub room (active: H)	63	NC	O	Non connection
24	NC	O	Non connection	64	NECK	O	6/8Ω switch L: 6Ω, H: 8Ω, Initial: 8Ω
25	NC	O	Non connection	65	RDY	O	Communication ready with main UCOM
26	NC			66	CLK	O	Communication clock with main UCOM
27	NC			67	DO	O	Communication data out with main UCOM
28	VEE	–	Ground	68	DI	I	Communication data in with main UCOM
29	NC	O	Non connection	69	FL_LAT	O	FL DRV LAT
30	NC			70	FL_CLK	O	FL DRV CLK
31	NC			71	FL_DO	O	FL DRV DATA
32	NC			72	FL_BK	O	FL DRV BK
33	NC			73	AVSS	–	Ground
34	NC			74	VREF	–	5V reference voltage
35	NC			75	NC	O	Non connection
36	NC			76	CS	I	Communication CS with main UCOM
37	NC			77	NC	O	Non connection
38	NC			78	NC		
39	NC			79	NC		
40	NC			80	NC		

BU4094BCF (MAIN CONTROL ASSY: IC502)

- Expansion IC

Pin Function

No.	Pin Name	Pin Function	Active
1	DEM_STP	Demodulator oscillation OFF/ON	H
2	DEM_RST	Demodulator reset L: RESET	L
3	NJM2279_SW1	NJM2279 video control of sub room system	
4	NJM2279_SW2		H
5	NJM2596_SW2	NJM2596 video control of main system	H
6	NJM2596_SW3		H
7	NJM2596_SW4		H
8	NJM2596_SW5		

BU4094BCF (MAIN CONTROL ASSY: IC503)

- Expansion IC

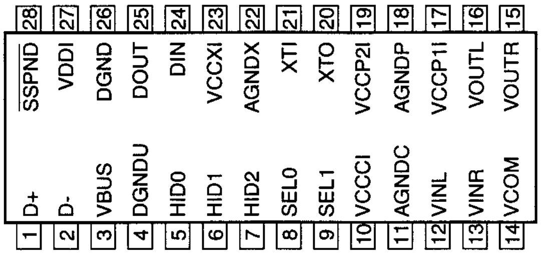
Pin Function

No.	Pin Name	Pin Function	Active
1	OSD ON	ON at OSD on	H
2	TC9215_C34	Switch the DSP/DIRECT/MULTI CH IN of surround signal H: Multi ch input path	
3	PHONO GAIN	"H" at PHONO equalizer ON	H
4	DSDM	For SACD "L" fixed	
5	TC74HC4053_INH	Select the Component/D4 input (2 inputs → 1 output)	
6	TC74HC4053_A		
7	FAN DRIVE	ON when rotates the FAN	H
8	LOFAN	Not used "H" fixed	

■ PCM2902EG (COAXIAL IN ASSY: IC1681)

• USB Codec IC

● Pin Assignment (Top view)

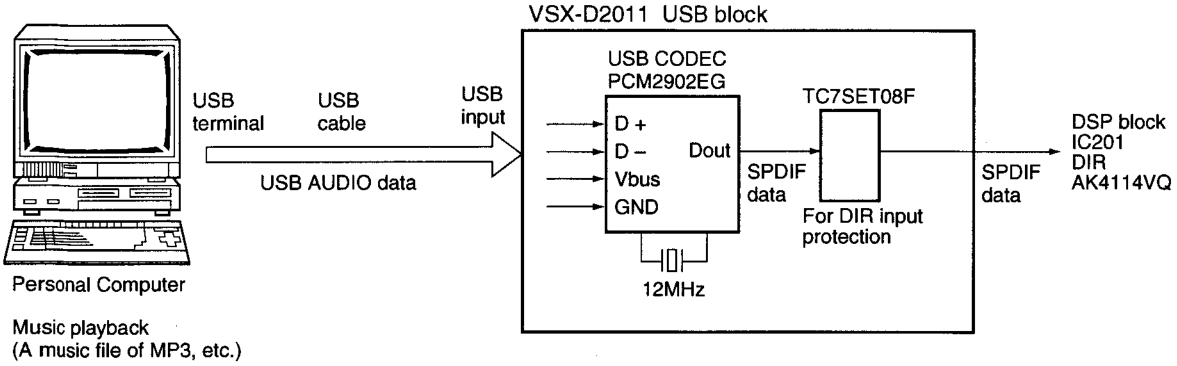

28 SSPND
27 VDDI
26 DGND
25 DOUT
24 DIN
23 VCCXI
22 AGNDX
21 XTI
20 XTO
19 VCCP2I
18 AGNDP
17 VCCP1I
16 VOUTL
15 VOUTR
1 D+
2 D-
3 VBUS
4 DGNDU
5 HID0
6 HID1
7 HID2
8 SEL0
9 SEL1
10 VCCCI
11 AGNDC
12 VINL
13 VINR
14 VCOM

● Pin Function

No.	Pin Name	I/O	Pin Function
1	D+	I/O	USB differential input/output plus(1)
2	D–	I/O	USB differential input/output minus(1)
3	VBUS	I	Connect to USB power (VBUS)
4	DGNDU	–	Digital ground for USB transceiver
5	HID0	I	HID key state input (mute), active high(3)
6	HID1	I	HID key state input (volume up), active high(3)
7	HID2	I	HID key state input (volume down), active high(3)
8	SEL0	I	Must be set to high(6)
9	SEL1	I	Must be set to high(6)
10	VCCCI	–	Internal analog power supply for codec(4)
11	AGNDC	–	Analog ground for codec
12	VINL	I	ADC analog input for L-channel
13	VINR	I	ADC analog input for R-channel
14	VCOM	–	Common for ADC/DAC (VCCCI/2) (4)
15	VOUTR	O	DAC Analog output for R-channel
16	VOUTL	O	DAC analog output for L-channel
17	VCCP1I	–	Internal analog power supply for PLL(4)
18	AGNDP	–	Analog ground for PLL
19	VCCP2I	–	Internal analog power supply for PLL(4)
20	XTO	O	Crystal oscillator output
21	XTI	I	Crystal oscillator input(2)
22	AGNDX	–	Analog ground for oscillator
23	VCCXI	–	Internal analog power supply for oscillator(4)
24	DIN	I	S/PDIF input(5)
25	DOUT	O	S/PDIF output
26	DGND	–	Digital ground
27	VDDI	–	Internal digital power supply(4)
28	SSPND	O	Suspend flag, active low (Low: suspend, High: operational)

(1) LV-TTL level
(2) 3.3-V CMOS level input
(3) 3.3-V CMOS level input with internal pulldown. This pin informs the PC of serviceable control signals such as mute, volume up or volume down, which has no connection with the internal DAC or ADC directly. See the volume control and mute control section.
(4) Connect a decouple capacitor to GND
(5) 3.3-V CMOS level input with internal pulldown, 5 V tolerant
(6) TTL Schmitt trigger, 5 V tolerant

● Flow of USB Input Data



About PCM2902EG

- With codec of USB BUS POWERED, power is supplied from Vbus of USB, and work. (work with a power supply of VSX-D2011 irrelatively.)
- Be USB codec, but analog I/O and digital (SPDIF) input are not using in VSX-D2011.
- When only connects to PC and receiver (VSX-D2011) is turned on, the output of TC7SET08F outputs.

● Help of Non-failure Decision

Symptom when a sound is not output (Symptom is different by each OS)

- Confirm a driver whether PC is recognizing it. (With a device manager).
- Is a switch of sound sourse performed properly? (Control Panel, Sound or Multimedia)
- Is volume control of PC adjusted?
- How is other PC?
- In the state that does not change PC setting, is sound output in other VSX-D2011?
- When uses CD-ROM and playback a music CD, and a sound is not output, is digital playback of CD-ROM checked?

When contain noise

- There is a bug in early USB AUDIO driver of WINDOWS XP, and contain noise once for several minutes. (Correspond with WINDOWS UPDATE.)
- An affinity problem with chip set
- Adaptation problem with chip set (refer to next item)
- Performance issue of PC. (Release resident software as measures.)
- Noise when using the other software during music playback. (Do not guarantee or do not use the other software)
- Do contain the same noise even if changes the PC?

Reference

Confirmation item of the USB part with Function checker.
Supply a power supply (+5V: pin 3, GND: pin 4) of IC1681 (PCM2902EG), and connect D+ (pin1) to GND.
Confirm that X1681 (ASS7047) starts oscillating.

Support OS	
Windows	98 / 98SE / ME
Windows	2000 Professional
Windows	XP Home / Professional

● Adaptation Problem with Chip Set

PCM2902EG caution of operation

Operating environment and findings of PCM2902EG

Evaluation PC: Libretto PAL2060 TNML made by Toshiba

(1) CPU: Crusoe 600MHz made by Transmeta
Use chip set: Transmeta N/B (North Bridge)
M1533 (South Bridge) made by ALi
OS: Windows ME

(2) CPU: Cerelon 566MHz made by Intel
Use chip set: Aladdin Pro 5 (North Bridge) and M1533 (South Bridge) made by ALi
OS: Windows ME

(3) CPU: K6-2 400MHz made by AMD
Use chip set: Aladdin 5 (North Bridge) and M1543 (South Bridge) made by ALi
OS: Windows ME

When contain noise by a problem of the chip set side, there is a problem in the PC side because even other USB audio equipment contains noise.

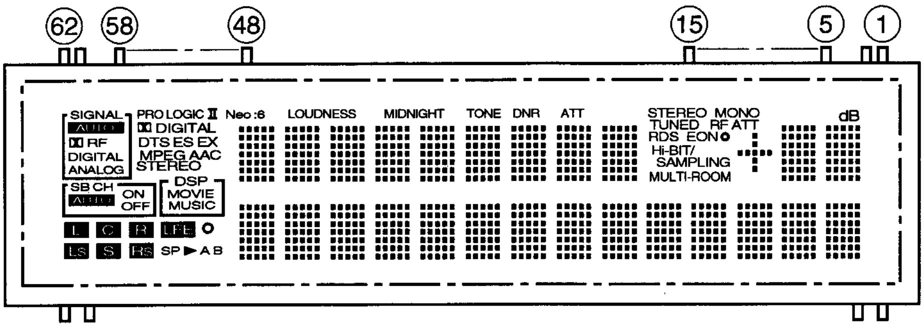
Therefore, do not recommend use in the condition and environment as mentioned above.

7.2.2 DISPLAY

■ AAV7087 (DISPLAY ASSY : V3000)

• FL DISPLAY

• Pin Assignment

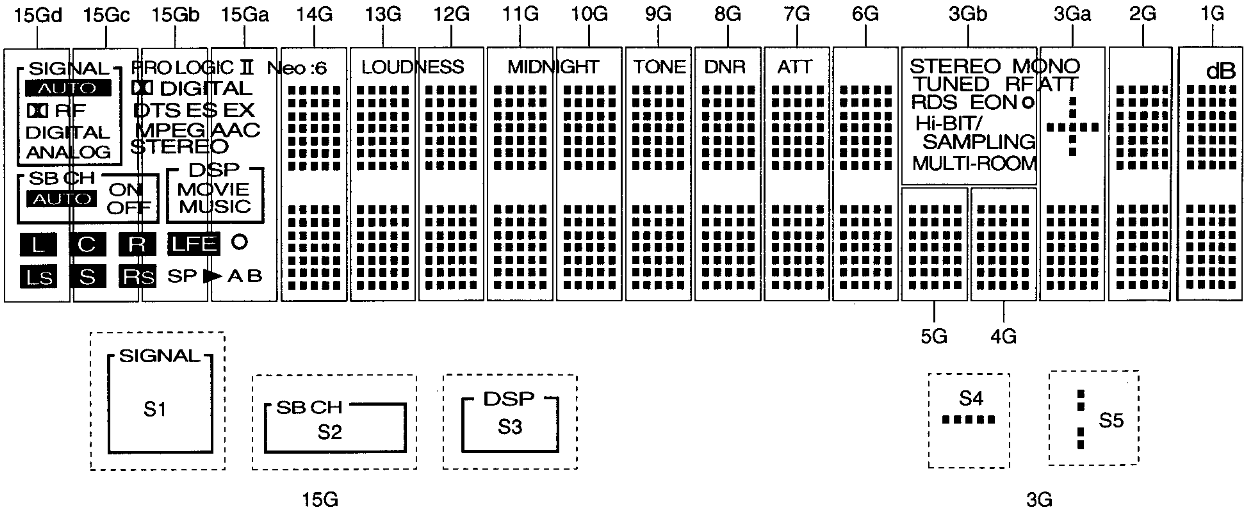

62
58
48
15
5
1
SIGNAL
AUTO
RF
DIGITAL
ANALOG
PRO LOGIC II
DIGITAL
DTS ES EX
MPEG AAC
STEREO
Neo:6
LOUDNESS
MIDNIGHT
TONE
DNR
ATT
STEREO MONO
TUNED RF ATT
RDS EON
Hi-BIT/
SAMPLING
MULTI-ROOM
dB
SB CH
AUTO
ON
OFF
DSP
MOVIE
MUSIC
L
C
R
LFE
LS
S
RS
SP ▶ A B

• Pin Connection

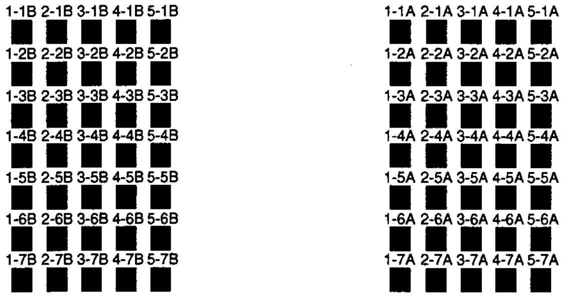
Pin No.	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47-3	2	1
Connection	F2	F2	NP	NP	GND	GND	NC	VH	NC	VDD	BK	LAT	CLK	SI	SO	NP	F1	F1

NOTE
1) F1, F2......... Filament
2) NP.............. No pin (5-15 cut it by 2mm)
3) DL.............. Datum Line
4) GND........... GND pin
5) VH.............. High Voltage Supply pin
6) VDD............ Logic Voltage Supply pin
7) NC.............. No connection
(NC pin should be electrically open on the PC board)
8) BK............... Driver Output Blanking
9) LAT............ Latch Control Input
10) CLK........... Shift Register Clock
11) SI.............. Serial Data Input
12) SO............ Serial Data Output
(to be open, if don't use)
13) Field of vision is a minimum of 21° from the lower side.

• Grid Assignment


15Gd
15Gc
15Gb
15Ga
14G
13G
12G
11G
10G
9G
8G
7G
6G
3Gb
3Ga
2G
1G
SIGNAL
AUTO
RF
DIGITAL
ANALOG
PRO LOGIC II
DIGITAL
DTS ES EX
MPEG AAC
STEREO
Neo:6
LOUDNESS
MIDNIGHT
TONE
DNR
ATT
STEREO MONO
TUNED RF ATT
RDS EON
Hi-BIT/
SAMPLING
MULTI-ROOM
dB
SB CH
AUTO
ON
OFF
DSP
MOVIE
MUSIC
L
C
R
LFE
LS
S
RS
SP ▶ AB
5G
4G
SIGNAL
S1
SB CH
S2
DSP
S3
S4
S5
15G
3G

• Segment Designation


1-1B 2-1B 3-1B 4-1B 5-1B
1-2B 2-2B 3-2B 4-2B 5-2B
1-3B 2-3B 3-3B 4-3B 5-3B
1-4B 2-4B 3-4B 4-4B 5-4B
1-5B 2-5B 3-5B 4-5B 5-5B
1-6B 2-6B 3-6B 4-6B 5-6B
1-7B 2-7B 3-7B 4-7B 5-7B
1-1A 2-1A 3-1A 4-1A 5-1A
1-2A 2-2A 3-2A 4-2A 5-2A
1-3A 2-3A 3-3A 4-3A 5-3A
1-4A 2-4A 3-4A 4-4A 5-4A
1-5A 2-5A 3-5A 4-5A 5-5A
1-6A 2-6A 3-6A 4-6A 5-6A
1-7A 2-7A 3-7A 4-7A 5-7A

(Lower stage)
(14G to 1G)

(Upper stage)
(14G to 6G, 2G, 1G)

• Anode Connection

	15Gd-15Ga	14G	13G	12G	11G	10G	9G	8G	7G	6G	5G	4G	3Gb, 3Ga	2G	1G
P1	Neo:6		LOUDNESS		MIDNIGHT		TONE	DNR	ATT	–	–	–	STEREO	–	dB
P2	PROLOGIC	1-1A	1-1A	1-1A	1-1A	1-1A	1-1A	1-1A	1-1A	1-1A	–	–	MONO	1-1A	1-1A
P3	Ⅱ	2-1A	2-1A	2-1A	2-1A	2-1A	2-1A	2-1A	2-1A	2-1A	–	–	TUNED	2-1A	2-1A
P4	S1	3-1A	3-1A	3-1A	3-1A	3-1A	3-1A	3-1A	3-1A	3-1A	–	–	RF ATT	3-1A	3-1A
P5	AUTO	4-1A	4-1A	4-1A	4-1A	4-1A	4-1A	4-1A	4-1A	4-1A	–	–	RDS	4-1A	4-1A
P6	DD RF	5-1A	5-1A	5-1A	5-1A	5-1A	5-1A	5-1A	5-1A	5-1A	–	–	EON	5-1A	5-1A
P7	DIGITAL	1-2A	1-2A	1-2A	1-2A	1-2A	1-2A	1-2A	1-2A	1-2A	–	–	○	1-2A	1-2A
P8	ANALOG	2-2A	2-2A	2-2A	2-2A	2-2A	2-2A	2-2A	2-2A	2-2A	–	–	HI-BIT/ SAMPLING	2-2A	2-2A
P9	DD DIGITAL	3-2A	3-2A	3-2A	3-2A	3-2A	3-2A	3-2A	3-2A	3-2A	–	–	S4	3-2A	3-2A
P10	DTS	4-2A	4-2A	4-2A	4-2A	4-2A	4-2A	4-2A	4-2A	4-2A	–	–	S5	4-2A	4-2A
P11	ES	5-2A	5-2A	5-2A	5-2A	5-2A	5-2A	5-2A	5-2A	5-2A	–	–	–	5-2A	5-2A
P12	EX	1-3A	1-3A	1-3A	1-3A	1-3A	1-3A	1-3A	1-3A	1-3A	–	–	–	1-3A	1-3A
P13	MPEG	2-3A	2-3A	2-3A	2-3A	2-3A	2-3A	2-3A	2-3A	2-3A	–	–	–	2-3A	2-3A
P14	AAC	3-3A	3-3A	3-3A	3-3A	3-3A	3-3A	3-3A	3-3A	3-3A	–	–	–	3-3A	3-3A
P15	STEREO	4-3A	4-3A	4-3A	4-3A	4-3A	4-3A	4-3A	4-3A	4-3A	–	–	–	4-3A	4-3A
P16	S2	5-3A	5-3A	5-3A	5-3A	5-3A	5-3A	5-3A	5-3A	5-3A	–	–	–	5-3A	5-3A
P17	AUTO	1-4A	1-4A	1-4A	1-4A	1-4A	1-4A	1-4A	1-4A	1-4A	–	–	–	1-4A	1-4A
P18	ON	2-4A	2-4A	2-4A	2-4A	2-4A	2-4A	2-4A	2-4A	2-4A	–	–	–	2-4A	2-4A
P19	OFF	3-4A	3-4A	3-4A	3-4A	3-4A	3-4A	3-4A	3-4A	3-4A	–	–	–	3-4A	3-4A
P20	S3	4-4A	4-4A	4-4A	4-4A	4-4A	4-4A	4-4A	4-4A	4-4A	–	–	–	4-4A	4-4A
P21	MOVIE	5-4A	5-4A	5-4A	5-4A	5-4A	5-4A	5-4A	5-4A	5-4A	–	–	–	5-4A	5-4A
P22	MUSIC	1-5A	1-5A	1-5A	1-5A	1-5A	1-5A	1-5A	1-5A	1-5A	–	–	–	1-5A	1-5A
P23	L	2-5A	2-5A	2-5A	2-5A	2-5A	2-5A	2-5A	2-5A	2-5A	–	–	–	2-5A	2-5A
P24	C	3-5A	3-5A	3-5A	3-5A	3-5A	3-5A	3-5A	3-5A	3-5A	–	–	–	3-5A	3-5A
P25	R	4-5A	4-5A	4-5A	4-5A	4-5A	4-5A	4-5A	4-5A	4-5A	–	–	–	4-5A	4-5A
P26	LS	5-5A	5-5A	5-5A	5-5A	5-5A	5-5A	5-5A	5-5A	5-5A	–	–	–	5-5A	5-5A
P27	S	1-6A	1-6A	1-6A	1-6A	1-6A	1-6A	1-6A	1-6A	1-6A	–	–	–	1-6A	1-6A
P28	RS	2-6A	2-6A	2-6A	2-6A	2-6A	2-6A	2-6A	2-6A	2-6A	–	–	–	2-6A	2-6A
P29	LFE	3-6A	3-6A	3-6A	3-6A	3-6A	3-6A	3-6A	3-6A	3-6A	–	–	–	3-6A	3-6A
P30	○	4-6A	4-6A	4-6A	4-6A	4-6A	4-6A	4-6A	4-6A	4-6A	–	–	–	4-6A	4-6A
P31	SP ▶	5-6A	5-6A	5-6A	5-6A	5-6A	5-6A	5-6A	5-6A	5-6A	–	–	–	5-6A	5-6A
P32	A	1-7A	1-7A	1-7A	1-7A	1-7A	1-7A	1-7A	1-7A	1-7A	–	–	–	1-7A	1-7A
P33	B	2-7A	2-7A	2-7A	2-7A	2-7A	2-7A	2-7A	2-7A	2-7A	–	–	–	2-7A	2-7A
P34	–	3-7A	3-7A	3-7A	3-7A	3-7A	3-7A	3-7A	3-7A	3-7A	–	–	–	3-7A	3-7A
P35	–	4-7A	4-7A	4-7A	4-7A	4-7A	4-7A	4-7A	4-7A	4-7A	–	–	–	4-7A	4-7A
P36	–	5-7A	5-7A	5-7A	5-7A	5-7A	5-7A	5-7A	5-7A	5-7A	–	–	–	5-7A	5-7A
P37	–	1-1B	1-1B	1-1B	1-1B	1-1B	1-1B	1-1B	1-1B	1-1B	1-1B	1-1B	1-1B	1-1B	1-1B
P38	–	2-1B	2-1B	2-1B	2-1B	2-1B	2-1B	2-1B	2-1B	2-1B	2-1B	2-1B	2-1B	2-1B	2-1B
P39	–	3-1B	3-1B	3-1B	3-1B	3-1B	3-1B	3-1B	3-1B	3-1B	3-1B	3-1B	3-1B	3-1B	3-1B
P40	–	4-1B	4-1B	4-1B	4-1B	4-1B	4-1B	4-1B	4-1B	4-1B	4-1B	4-1B	4-1B	4-1B	4-1B
P41	–	5-1B	5-1B	5-1B	5-1B	5-1B	5-1B	5-1B	5-1B	5-1B	5-1B	5-1B	5-1B	5-1B	5-1B
P42	–	1-2B	1-2B	1-2B	1-2B	1-2B	1-2B	1-2B	1-2B	1-2B	1-2B	1-2B	1-2B	1-2B	1-2B
P43	–	2-2B	2-2B	2-2B	2-2B	2-2B	2-2B	2-2B	2-2B	2-2B	2-2B	2-2B	2-2B	2-2B	2-2B
P44	–	3-2B	3-2B	3-2B	3-2B	3-2B	3-2B	3-2B	3-2B	3-2B	3-2B	3-2B	3-2B	3-2B	3-2B
P45	–	4-2B	4-2B	4-2B	4-2B	4-2B	4-2B	4-2B	4-2B	4-2B	4-2B	4-2B	4-2B	4-2B	4-2B
P46	–	5-2B	5-2B	5-2B	5-2B	5-2B	5-2B	5-2B	5-2B	5-2B	5-2B	5-2B	5-2B	5-2B	5-2B
P47	–	1-3B	1-3B	1-3B	1-3B	1-3B	1-3B	1-3B	1-3B	1-3B	1-3B	1-3B	1-3B	1-3B	1-3B
P48	–	2-3B	2-3B	2-3B	2-3B	2-3B	2-3B	2-3B	2-3B	2-3B	2-3B	2-3B	2-3B	2-3B	2-3B
P49	–	3-3B	3-3B	3-3B	3-3B	3-3B	3-3B	3-3B	3-3B	3-3B	3-3B	3-3B	3-3B	3-3B	3-3B
P50	–	4-3B	4-3B	4-3B	4-3B	4-3B	4-3B	4-3B	4-3B	4-3B	4-3B	4-3B	4-3B	4-3B	4-3B
P51	–	5-3B	5-3B	5-3B	5-3B	5-3B	5-3B	5-3B	5-3B	5-3B	5-3B	5-3B	5-3B	5-3B	5-3B
P52	–	1-4B	1-4B	1-4B	1-4B	1-4B	1-4B	1-4B	1-4B	1-4B	1-4B	1-4B	1-4B	1-4B	1-4B
P53	–	2-4B	2-4B	2-4B	2-4B	2-4B	2-4B	2-4B	2-4B	2-4B	2-4B	2-4B	2-4B	2-4B	2-4B
P54	–	3-4B	3-4B	3-4B	3-4B	3-4B	3-4B	3-4B	3-4B	3-4B	3-4B	3-4B	3-4B	3-4B	3-4B
P55	–	4-4B	4-4B	4-4B	4-4B	4-4B	4-4B	4-4B	4-4B	4-4B	4-4B	4-4B	4-4B	4-4B	4-4B
P56	–	5-4B	5-4B	5-4B	5-4B	5-4B	5-4B	5-4B	5-4B	5-4B	5-4B	5-4B	5-4B	5-4B	5-4B
P57	–	1-5B	1-5B	1-5B	1-5B	1-5B	1-5B	1-5B	1-5B	1-5B	1-5B	1-5B	1-5B	1-5B	1-5B
P58	–	2-5B	2-5B	2-5B	2-5B	2-5B	2-5B	2-5B	2-5B	2-5B	2-5B	2-5B	2-5B	2-5B	2-5B
P59	–	3-5B	3-5B	3-5B	3-5B	3-5B	3-5B	3-5B	3-5B	3-5B	3-5B	3-5B	3-5B	3-5B	3-5B
P60	–	4-5B	4-5B	4-5B	4-5B	4-5B	4-5B	4-5B	4-5B	4-5B	4-5B	4-5B	4-5B	4-5B	4-5B
P61	–	5-5B	5-5B	5-5B	5-5B	5-5B	5-5B	5-5B	5-5B	5-5B	5-5B	5-5B	5-5B	5-5B	5-5B
P62	–	1-6B	1-6B	1-6B	1-6B	1-6B	1-6B	1-6B	1-6B	1-6B	1-6B	1-6B	1-6B	1-6B	1-6B
P63	–	2-6B	2-6B	2-6B	2-6B	2-6B	2-6B	2-6B	2-6B	2-6B	2-6B	2-6B	2-6B	2-6B	2-6B
P64	–	3-6B	3-6B	3-6B	3-6B	3-6B	3-6B	3-6B	3-6B	3-6B	3-6B	3-6B	3-6B	3-6B	3-6B
P65	–	4-6B	4-6B	4-6B	4-6B	4-6B	4-6B	4-6B	4-6B	4-6B	4-6B	4-6B	4-6B	4-6B	4-6B
P66	–	5-6B	5-6B	5-6B	5-6B	5-6B	5-6B	5-6B	5-6B	5-6B	5-6B	5-6B	5-6B	5-6B	5-6B
P67	–	1-7B	1-7B	1-7B	1-7B	1-7B	1-7B	1-7B	1-7B	1-7B	1-7B	1-7B	1-7B	1-7B	1-7B
P68	–	2-7B	2-7B	2-7B	2-7B	2-7B	2-7B	2-7B	2-7B	2-7B	2-7B	2-7B	2-7B	2-7B	2-7B
P69	–	3-7B	3-7B	3-7B	3-7B	3-7B	3-7B	3-7B	3-7B	3-7B	3-7B	3-7B	3-7B	3-7B	3-7B
P70	–	4-7B	4-7B	4-7B	4-7B	4-7B	4-7B	4-7B	4-7B	4-7B	4-7B	4-7B	4-7B	4-7B	4-7B
P71	–	5-7B	5-7B	5-7B	5-7B	5-7B	5-7B	5-7B	5-7B	5-7B	5-7B	5-7B	5-7B	5-7B	5-7B

• Anode Timing Chart

<table>
<tr><th></th><th>15Gd-15Ga</th><th>14G</th><th>13G</th><th>12G</th><th>11G</th><th>10G</th><th>9G</th><th>8G</th><th>7G</th><th>6G</th><th>5G</th><th>4G</th><th>3Gb, 3Ga</th><th>2G</th><th>1G</th></tr>
<tr><td>P1</td><td colspan="2">T18</td><td colspan="2">T17</td><td colspan="2">T16</td><td>T9</td><td>T8</td><td>T7</td><td>–</td><td>–</td><td>–</td><td>T3</td><td>–</td><td>T1</td></tr>
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</table>

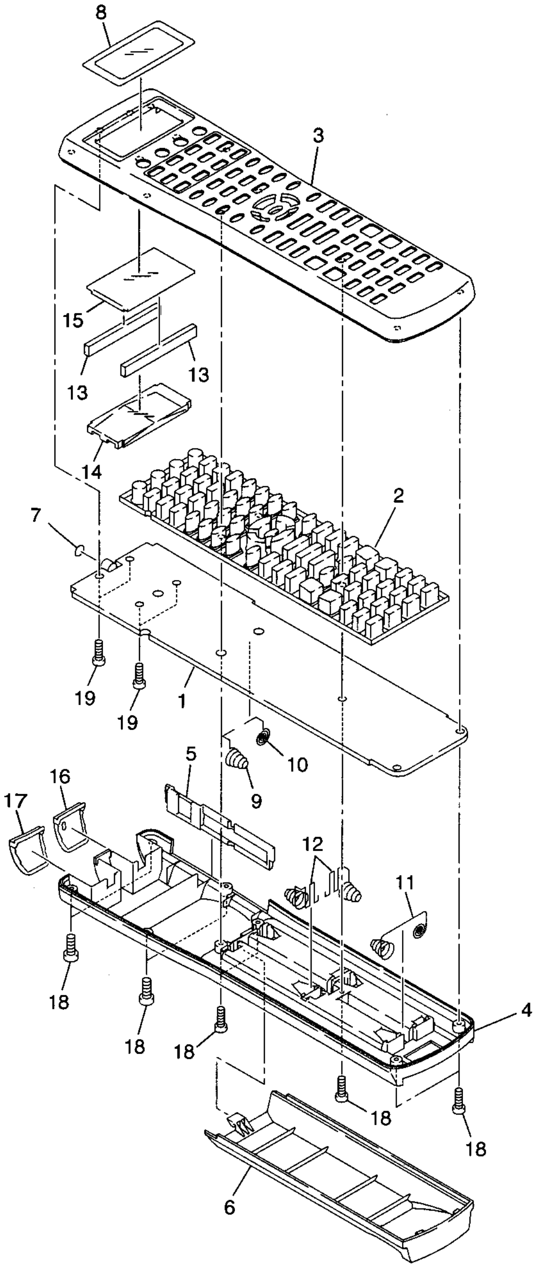
7.3 CLEANING

Before shipping out the product, be sure to clean the following positions by using the prescribed cleaning tools:

Position to be cleaned	**Cleaning tools**
Fans	Cleaning paper : GED-008

7.4 REMOTE CONTROL UNIT

7.4.1 EXPLODED VIEWS AND PARTS LIST (VSX-D2011S : AXD7326)

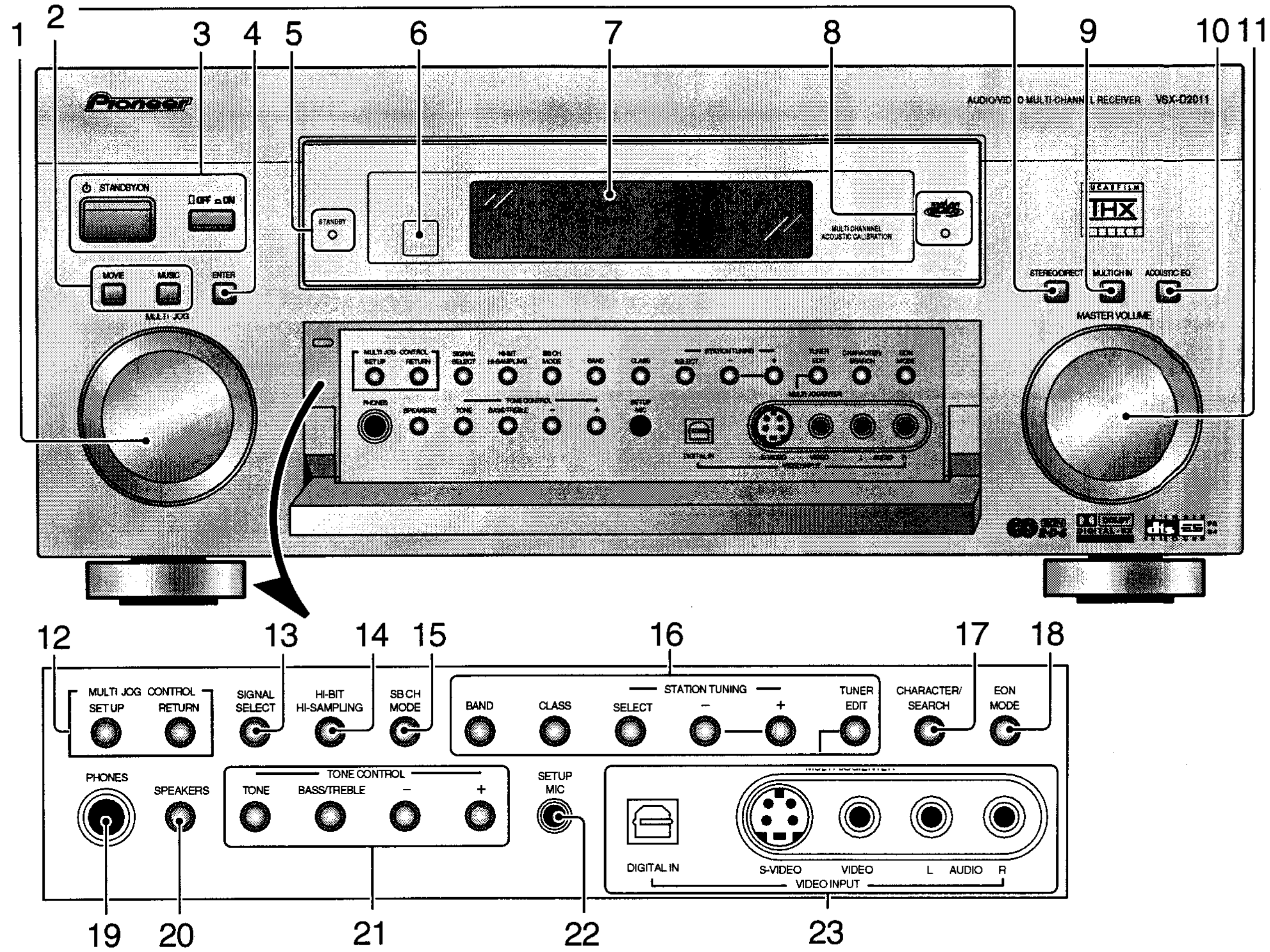


Mark	No.	Description	Part No.
	1	PCB Assy	AZC7301
	2	Rubber Key	AZA7425
	3	Case A	AZN7906
	4	Case B	AZN7892
	5	Frame	AZN7908
	6	Battery Cover	AZN7896
	7	MIC Cap	AZN7909
	8	Name Plate	201RRC-314-01L
	9	Terminal A	411RRC-212-01G
	10	Terminal B	411RRC-213-01G
	11	Battery Terminal	413RRC-143-01R
	12	Spring	413RRC-171-01G
	13	Connector	423RRC-046-01G
	14	Plate	481RRC-018-01G
	15	Shield Plate	801RRC-020-01L
	16	Filter A	811RRC-109-01G
	17	Filter B	811RRC-110-01G
	18	Screw	A-BA2008-225002
	19	Screw	A-BJ2006

8. PANEL FACILITIES

8.1 FRONT PANEL

All the controls on the front panel are explained and/or referenced here. To open the front panel push gently on the lower third of the panel.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11
Pioneer
AUDIO/VIDEO MULTI-CHANNEL RECEIVER VSX-D2011
STANDBY/ON
OFF ON
STANDBY
MULTI CHANNEL ACOUSTIC CALIBRATION
THX
STEREO/DIRECT
MULTI CH IN
ACOUSTIC EQ
MOVIE
MUSIC
ENTER
MULTI JOG
MASTER VOLUME
12
13
14
15
16
17
18
MULTI JOG CONTROL
SET UP
RETURN
SIGNAL SELECT
HI-BIT HI-SAMPLING
SB CH MODE
STATION TUNING
BAND
CLASS
SELECT
–
+
TUNER EDIT
CHARACTER/ SEARCH
EON MODE
PHONES
SPEAKERS
TONE CONTROL
TONE
BASS/TREBLE
SETUP MIC
DIGITAL IN
S-VIDEO
VIDEO
L AUDIO R
VIDEO INPUT
19
20
21
22
23

1 MULTI JOG dial
You can use this dial for many purposes. When you press the SET UP button (12), you can use it to perform SYSTEM SETUP operations; select a function (like a DVD) or a listening mode (like Dolby Pro logic II) or do TUNER EDIT functions (in TUNER mode).

2 Listening mode buttons
There are two types of SURROUND modes:

MOVIE: Press to put the receiver into MOVIE listening mode.

MUSIC: Press to put the receiver into MUSIC listening mode.

STEREO/DIRECT: Switches the receiver into STEREO mode if it was in a different sound mode or toggles between DIRECT and STEREO mode.

DIRECT playback bypasses the tone controls and channel level for the most accurate reproduction of a program source.

3 □OFF ▭ON button
Press to switch the receiver between OFF and STANDBY mode or ON.

⏻ STANDBY/ON button
Press to switch the receiver between ON and STANDBY mode.

4 ENTER button
Use this button to enter information concerning the SYSTEM SETUP, listening mode or the tuner.

5 STANDBY indicator
Lights when the receiver is in STANDBY mode. (Please note that this receiver consumes a small amount of power [0.7 W for the European model and 0.9 W for the multi-voltage model] in the standby mode.)

6 Remote sensor
Receives the signals from the remote control.

7 Display

8 MCACC indicator
Lights when the ACOUSTIC CAL EQ is on. (After the AUTO SURROUND SOUND SETUP has been completed the ACOUSTIC CAL EQ is set on and this display will light.)

9 MULTI CH IN button
Use this button to select the component you have hooked up to the MULTI CH IN terminals (for example, a DVD-Audio player).

10 ACOUSTIC EQ button
Press to switch on/off and select the type of acoustic calibr

11 MASTER VOLUME dial
Use to raise or lower the volume of the receiver.

12 MULTI JOG CONTROL buttons

SET UP
Press to switch the SYSTEM SETUP mode.

RETURN
Press to move back one step in the SYSTEM SETUP process.

13 SIGNAL SELECT button
Press SIGNAL SELECT repeatedly to select one of the following:

AUTO – If there are analog and digital signals input, the receiver automatically selects the digital signal.

DIGITAL – To select an optical or coaxial digital signal.

ANALOG – To select an analog signal.

14 HI-BIT HI-SAMPLING button
Use this button to switch the HI-BIT HI-SAMPLING mode on or off. Use to hear CD and DVD, as well as other digital soundtracks at a wider dynamic range, allowing for finer audio reproduction.

15 SB CH MODE button
Use this button to turn the surround back channels ON/OFF/AUTO or switch the VIRTUAL SURROUND BACK mode between ON/OFF/AUTO.

16 TUNER CONTROL buttons

BAND
Press to select the AM or FM band.

CLASS
Press repeatedly to switch the preset station classes.

SELECT
Switches the –/+ buttons between station memory and frequency select modes.

–/+
Selects station memories or frequencies when using the tuner.

TUNER EDIT
Press to memorize and name a station for recall using the MULTI JOG and ENTER buttons.

17 CHARACTER/SEARCH button
Use to search for different program types in RDS mode.

18 EON MODE button
Use to search for different programs that are transmitting traffic or news information (this search method is called EON).

19 PHONES jack
Connect headphones for private listening (no sound will be heard through the speakers).

20 SPEAKERS (A/B) button
The use of this button depends on how the SURRBACK SYSTEM is set. If NORMAL SYSTEM is chosen this button toggles between A and OFF. If FRON Bi-AMP is chosen this button toggles between A+B and OFF. If SECOND ZONE is chosen this button toggles between A, B, A+B and OFF.

21 TONE control buttons

TONE button
This button switches between TONE ON and TONE BYPASS, which bypasses the tone circuitry.

BASS/TREBLE button
Use to select whether the bass or treble will be adjusted.

–/+ buttons
Use to adjust the frequency levels.

22 SET UP MIC jack
Plug in the set up mic here. This is very important in order to set up your system and get proper surround sound.

23 VIDEO INPUT jacks

DIGITAL IN
Digital input for connecting a game console, DVD player, video camera (etc.), that has an optical digital connection.

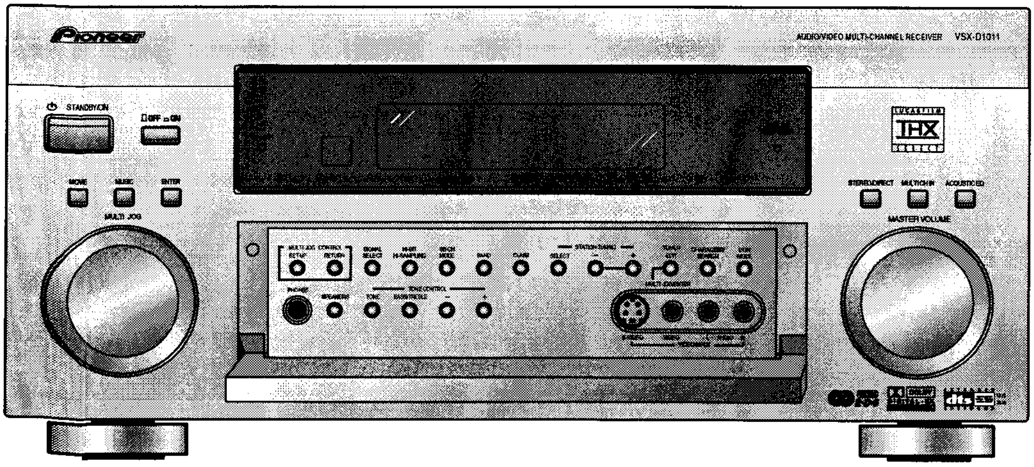
S-VIDEO
Video input for connecting a portable DVD player, video camera (etc.), that has an S video out.

RCA VIDEO / AUDIO (L/R)
Video input for connecting a portable DVD player, video camera, etc. That has standard RCA video/audio outputs.

24 MIDNIGHT button
Switches the MIDNIGHT listening mode on or off (for all modes except THX CINEMA and MULTI CH IN).

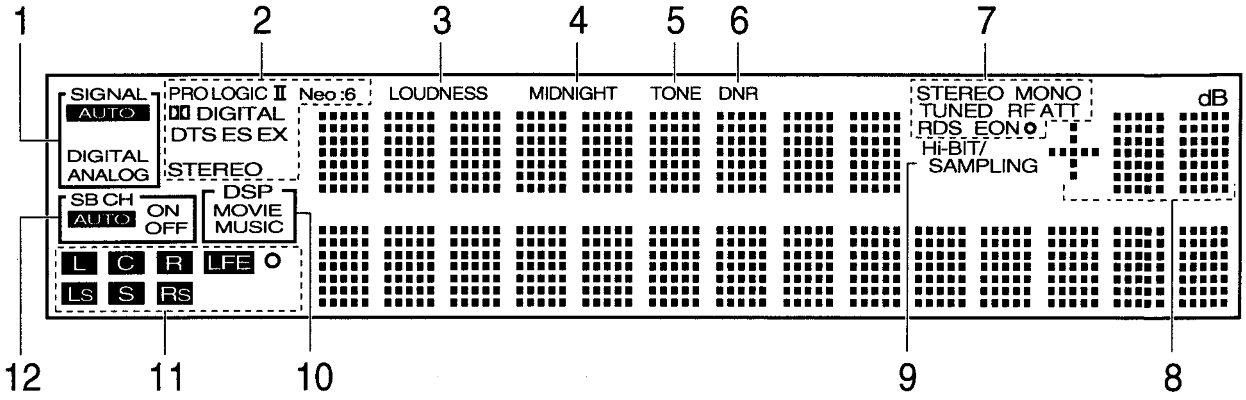
25 LOUDNESS button
Switches the LOUDNESS mode on or off (for all modes except THX CINEMA and MULTI CH IN).

VSX-D1011



8.2 DISPLAY

All the display information is explained and/or referenced here.



1 **SIGNAL SELECT indicators**
Light to indicate the input signal you selected.

AUTO: Lights when the receiver is set to select the input signal automatically.
DIGITAL: Lights when digital audio signals are selected.
ANALOG: Lights when analog signals are selected.

2 **Digital format indicators**
PRO LOGIC II: Lights during Dolby Pro Logic II processing.
NEO:6: Lights during NEO:6 processing.
DD DIGITAL: Lights when a Dolby Digital signal is detected.
DTS: Lights when a DTS signal is detected.
ES: Lights when playing back a DTS ES signal.
EX: Lights when playing back a Dolby Digital EX signal.
STEREO: Lights during two-channel playback.

3 **LOUDNESS indicator**
Lights when LOUDNESS is on.

4 **MIDNIGHT indicator**
Lights when MIDNIGHT is on.

5 **TONE indicator**
Lights when the TONE control is on.

6 **DNR indicator**
Lights when DIGITAL NR is on.

7 **TUNER indicators**
STEREO: Lights when an FM stereo broadcast is received in the auto stereo mode.

MONO: Lights when the tuner is set to receive FM broadcasts and when MPX mode is selected.

TUNED: Lights when a broadcast is received.

RF ATT (European model only): Lights when the RF ATT is on.

RDS (European model only): Lights when an RDS broadcast is received.

EON o (European model only): EON lights when it has been set. The dot indicator next to it lights when the station you are currently tuned to carries the EON data service.

8 **Volume level indicator**

9 **Hi-BIT/SAMPLING indicator**
Lights when a HI-BIT/SAMPLING mode is on.

10 **DSP indicators**
MOVIE: Lights when a MOVIE mode is selected. When a DSP MOVIE mode is selected DSP will light with a box around it.

MUSIC: Lights when a MUSIC mode is selected. When a DSP MUSIC mode is selected DSP will light with a box around it.

11 **Program Format indicators**
For Dolby Digital or DTS sources: These indicators change according to which channels are active in the source. When all three **LS** (left surround), **S** (surround) and **RS** (right surround) light at the same time it means a source with a 6.1 channel playback flag is being used.

L – Left front channel.
C – Center channel.
R – Right front channel.
LS – Left surround channel.
S – Surround channel or Surround back channel.
RS – Right surround channel.
LFE – Low Frequency Effects channel.

o – Lights when LFE signal is input.

12 **SB CH indicators**
Light to indicate the status of the surround back channels.

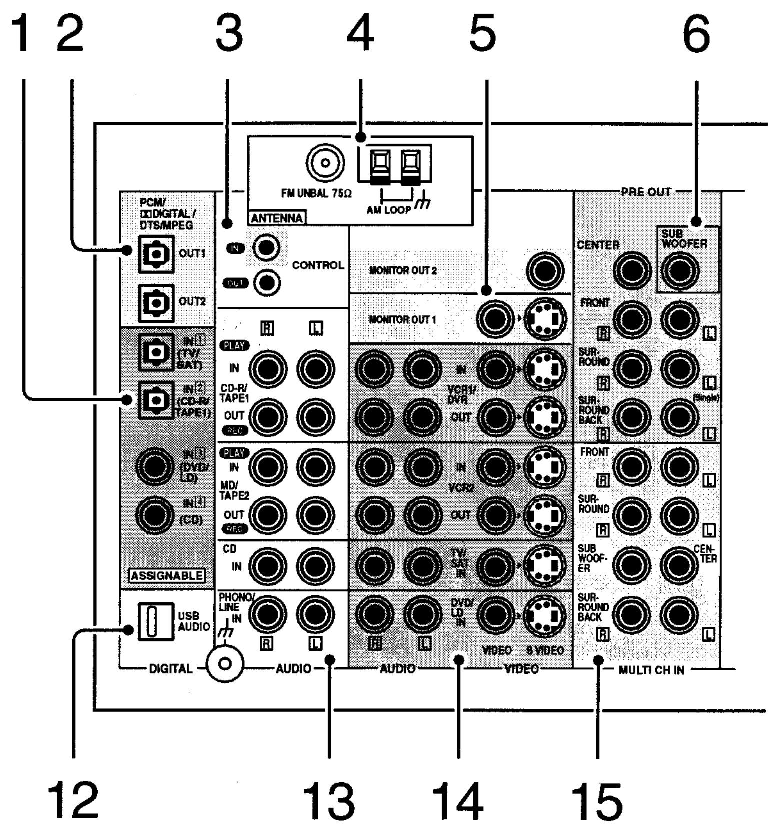
AUTO – Lights when the SB CH MODE or VIRTUAL SURROUND BACK mode is set to AUTO.

ON – Lights when the SB CH MODE or VIRTUAL SURROUND BACK mode is set to ON.

OFF – Lights when the SB CH MODE or VIRTUAL SURROUND BACK mode is set to OFF.

8.3 REAR PANEL

All the terminals on the back panel are explained and/or referenced here.


1
2
3
4
5
6
PCM/ DIGITAL/ DTS/MPEG
OUT1
OUT2
IN1 (TV/SAT)
IN2 (CD-R/TAPE1)
IN3 (DVD/LD)
IN4 (CD)
ASSIGNABLE
USB AUDIO
DIGITAL
ANTENNA
FM UNBAL 75Ω
AM LOOP
IN
OUT
CONTROL
MONITOR OUT 2
MONITOR OUT 1
PRE OUT
CENTER
SUB WOOFER
FRONT
SURROUND
SURROUND BACK
(Single)
R
L
PLAY
IN
CD-R/TAPE1
OUT
REC
MD/TAPE2
CD
PHONO/LINE
VCR1/DVR
VCR2
TV/SAT IN
DVD/LD IN
VIDEO
S VIDEO
AUDIO
MULTI CH IN
SUB WOOFER
CENTER
12
13
14
15

1 **DIGITAL IN terminals**
Use these terminals to input the signal from a DVD, CD player or any other kind of digital player. To be able to play Dolby Digital and other surround soundtracks you need to make digital connections. To do this use the digital terminals here. If you don't connect as per the default settings you need to complete "Assigning the Digital Inputs".

2 **DIGITAL OUT terminals**
Use these terminals to output a digital signal to a DVD-R, CD-R, MD recorder or any other kind of digital recorder.

3 **CONTROL IN/OUT terminal**
You can use this jack to hook up other PIONEER equipment, that has a CONTROL terminal, so that you can control them all by pointing the remote control(s) at one remote sensor.

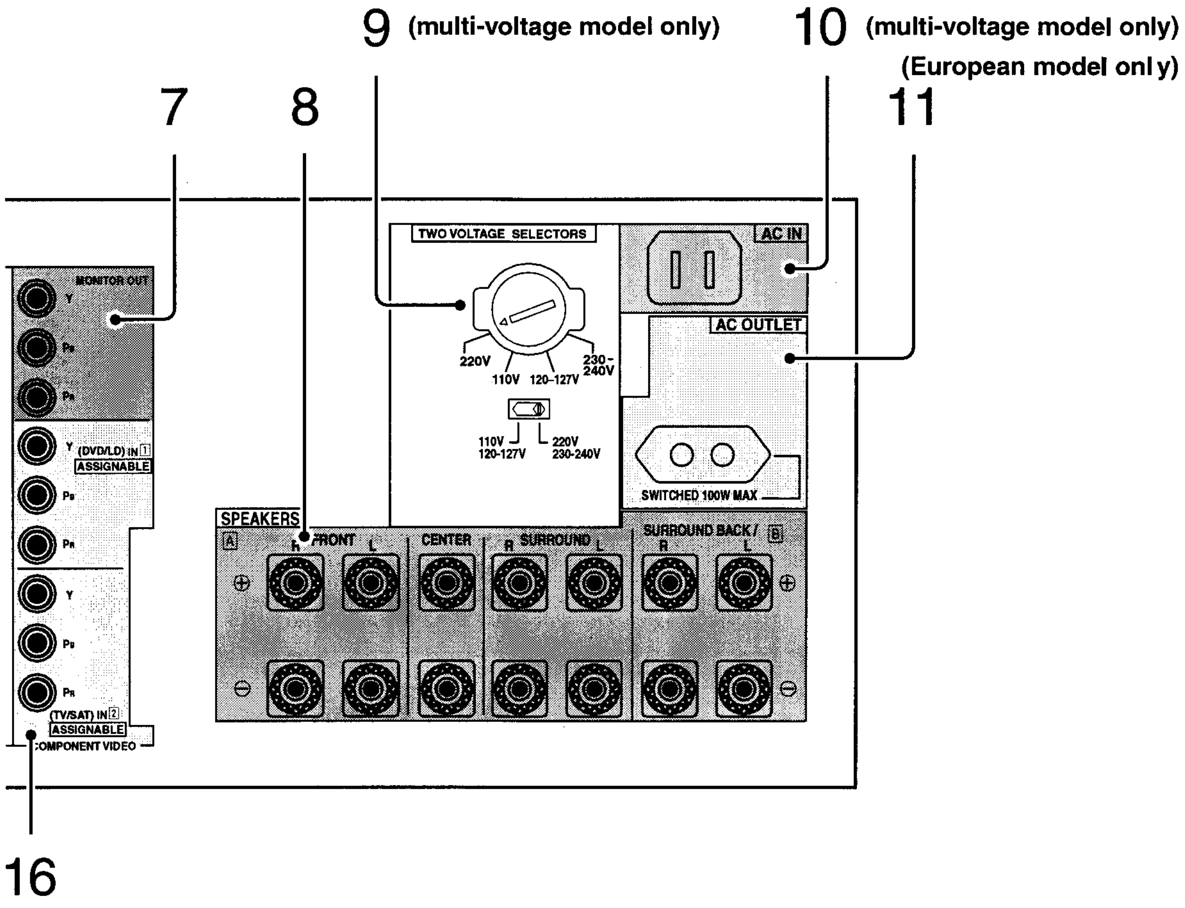
4 **Radio antenna terminals**
Hook up antennas for the radio tuner built into the receiver here.

5 **MONITOR OUT 1 & 2 terminals (connect a TV or monitor here)**
Use either of these terminals to output the video signal to your TV(s), video projector(s) or monitor(s). The on-screen displays to setup the receiver will only be output through MONITOR OUT 1.

6 **PRE OUT analog terminals (connect an amplifier here)**
Use these terminals to output the audio signal from this amplifier to a different amplifier if that's how you choose to set up your system.

7 **COMPONENT VIDEO MONITOR OUT terminals**
Use these terminals to output the video signal from the COMPONENT VIDEO IN terminals to your TV. See #16 for more information.

8 **SPEAKERS terminals**
Use these terminals to connect speakers to the receiver. The FRONT, CENTER and SURROUND terminals are for the main speaker system and the SURROUND BACK speakers can be set to either the main system or the SECOND ZONE. See page 37 to set the SURROUND BACK speakers.


9 (multi-voltage model only)
10 (multi-voltage model only)
(European model only)
7
8
11
TWO VOLTAGE SELECTORS
220V
110V
120-127V
230-240V
110V 120-127V
220V 230-240V
AC IN
AC OUTLET
SWITCHED 100W MAX
MONITOR OUT
Y
PB
PR
(DVD/LD) IN 1
ASSIGNABLE
(TV/SAT) IN 2
ASSIGNABLE
COMPONENT VIDEO
SPEAKERS
A
FRONT
R
L
CENTER
SURROUND
SURROUND BACK /
B
⊕
⊖
16

9 Voltage Selector (multi-voltage model only)
Use to match the voltage coming into the receiver with the voltage in your country or region.

10 AC IN (multi-voltage model only)
Hook up the power cord to this terminal.

11 AC OUTLET (European model only) (switched, 100 W max)
Hook up an external component to the power supply of this receiver. Only do this with audio or video components being used in this system and never hook up heavy equipment (like TVs, heaters, air conditioners, refrigerators, etc.) to this receiver.

12 USB AUDIO IN terminal
Use this terminal to connect a PC to this receiver.

13 Audio input/output terminals (connect analog components here)
Use these terminals to input/output the audio signal from analog components (like a cassette deck or turntable). These are analog jacks.

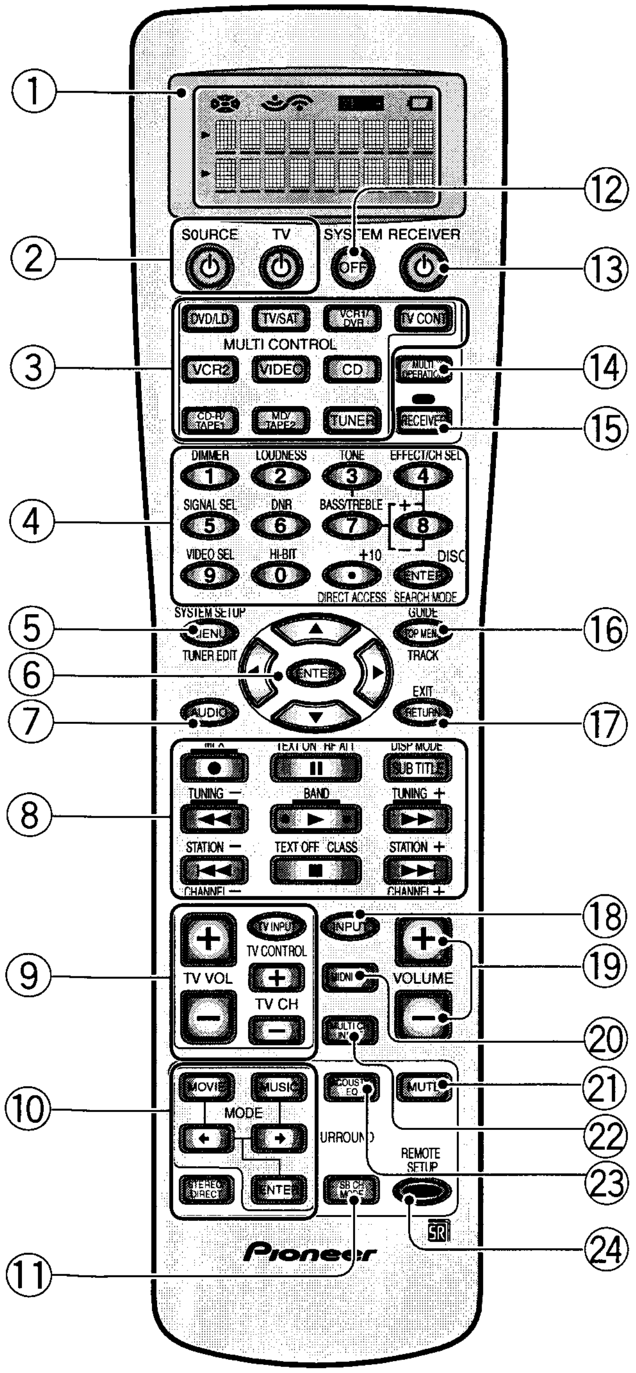
14 Video components input/output terminals
Input/output signals from your video components (DVD, VCR, TV tuners, SAT tuners, etc.) here.

15 MULTI CH IN terminals
Use these terminals to input a multichannel surround signal (for example, a DVD-Audio signal) in an analog fashion. These are analog jacks.

16 COMPONENT VIDEO IN terminals
Use these terminals to hook up the video connections of your video components with this high quality method. Your components will have to have the terminals as well to take advantage of this kind of connection. If you don't connect as per the default settings you need to complete "Assigning the Component Video Inputs".

8.4 REMOTE CONTROL UNIT

This page describes the buttons on the remote control used to operate the receiver.


①
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⑳
㉑
㉒
㉓
㉔
SOURCE
TV
SYSTEM OFF
RECEIVER
DVD/LD
TV/SAT
VCR1/DVR
TV CONT
MULTI CONTROL
VCR2
VIDEO
CD
MULTI OPERATION
CD-R/TAPE1
MD/TAPE2
TUNER
RECEIVER
DIMMER
LOUDNESS
TONE
EFFECT/CH SEL
SIGNAL SEL
DNR
BASS/TREBLE
VIDEO SEL
HI-BIT
+10
DISC
ENTER
DIRECT ACCESS
SEARCH MODE
SYSTEM SETUP
MENU
TUNER EDIT
GUIDE
TOP MENU
TRACK
ENTER
EXIT
RETURN
AUDIO
TEXT ON
RPT ALL
DISP MODE
SUB TITLE
TUNING –
BAND
TUNING +
STATION –
TEXT OFF
CLASS
STATION +
CHANNEL –
CHANNEL +
TV INPUT
TV CONTROL
INPUT
TV VOL
TV CH
DNI
VOLUME
MULTI CH IN
MOVIE
MUSIC
MODE
ACOUSTIC EQ
MUTE
SURROUND
REMOTE SETUP
STEREO DIRECT
ENTER
SB CH MODE
SR
Pioneer

① **Remote Control Display Screen**

② **SOURCE ⏻ button**

Use this button to turn on/off other components. You must input the preset code in order to use this function.

TV ⏻ button

This is a dedicated TV button. Use it to turn on/off your TV.

③ **MULTI CONTROL buttons**

These buttons are the basic controls that switch the mode of the receiver and the remote control, which allows you to control your other components.

TV CONT: Press so that the remote control can operate the TV control commands.

④ **Number buttons**

These can be used for many purposes depending on the mode of the remote control.

When in receiver mode the buttons operate as below:

DIMMER button

Use to adjust the brightness of the receiver's display.

LOUDNESS button

Switches the LOUDNESS mode on or off (for all modes except THX CINEMA and MULTI CH IN).

TONE button

This button switches between TONE ON and TONE BYPASS, which bypasses the tone circuitry.

BASS/TREBLE buttons

Use to select whether the bass or treble will be adjusted.

(+/–) buttons

Use to adjust the TONE level, effect level and channel level as well as make Dolby Pro Logic II MUSIC parameter settings.

EFFECT/CH SEL. button

Switches between the diffeerent channels so you can add volume individually to each channel with the + and – buttons. Also selects EFFECT mode of PIONEER original sound modes and Dolby Pro Logic II MUSIC parameter settings. You can then use the + and – buttons to make these adjustments.

SIGNAL SELECT button

Press SIGNAL SELECT repeatedly to select one of the following:

AUTO – If there are analog and digital signals input, the receiver automatically selects the digital signal.

DIGITAL – To select an optical or coaxial digital signal.

ANALOG – To select an analog signal.

DIGITAL NR (DNR) button

Switches the DIGITAL NR on or off.

VIDEO SELECT button

Use to toggle between the different video input possibilities.

HI-BIT button

Use this button to switch the HI-BIT HI-SAMPLING on or off. Use to hear CD and DVD, as well as other digital soundtracks at a wider dynamic range, allowing for finer audio reproduction.

⑤ SYSTEM SETUP button

Use for all system setups, including the speaker and sound systems. For more information see. “Setting up for Surround Sound“ starting on page 36. For a DVD player use this button to bring up the DVD menu and for a tuner use this button in the same way as the TUNER EDIT button.

⑥ ▲/▼/◄/►/ENTER buttons

These buttons can be used for a variety of operations in the SYSTEM SETUP menu.

These buttons are used to control the menus for other components when in those modes (DVD, digital TV tuner, satellite tuner, cable tuner, etc.). In TUNER mode, they can select a station and/or a frequency.

⑦ AUDIO button

Use to switch the audio tracks of a DVD when in DVD mode.

⑧ Command button for other components

Use these buttons to control other components you selected with the MULTI CONTROL buttons. You must input the preset code in order use this function.

⑨ TV CONTROL buttons

The following buttons are used to control the TV only and can be used once they are preset to control your TV.
TV INPUT: Press to select the input source for the TV.
TV CH +/– : Use these buttons to change the channel of the TV.
TV VOL +/– : Press to control the volume of the TV.

⑩ Listening mode buttons

SURROUND buttons (MOVIE, MUSIC, ⬅ ➡ & ENTER):
MOVIE: Press to put the receiver into MOVIE listening mode.
MUSIC: Press to put the receiver into MUSIC listening mode.

⬅ ➡: Use to select the MOVIE or MUSIC listening mode.

ENTER: Use this button to enter information concerning the listening modes.

STEREO/DIRECT: Switches the receiver into STEREO mode if it was in a different sound mode or toggles between DIRECT and STEREO mode.

DIRECT playback bypasses the tone controls and channel level for the most accurate reproduction of a program source.

⑪ SB CH MODE button

Use this button to turn the surround back channels ON/OFF/AUTO or switch the VIRTUAL SURROUND BACK mode between ON/OFF/AUTO.

⑫ SYSTEM OFF button

This button turns off components in two ways. First, when pressed it will turn off all PIONEER components. Secondly, any component that has programmed into the SYSTEM OFF settings will be turned off.
For example: If you programmed power off in the SYSTEM OFF settings for your TV and VCR, pressing the SYSTEM OFF button will turn off these components even if they are not

PIONEER products.

⑬ ⏻ RECEIVER (STANDBY/ON) button

Press to turn power of the receiver on or to standby (off).

⑭ MULTI OPERATION button

Use this button to start the MULTI OPERATION mode. For how to program and use the MULTI OPERATION mode.

⑮ RECEIVER button

Use this button to switch the remote control into receiver mode in order to get certain receiver functions or do receiver setups.

⑯ TOP MENU/GUIDE button

Use to find stations or menus on a digital TV tuner. For a DVD player use this button to bring up the DVD menu.

⑰ RETURN button

When you are in a receiver setup operation this button will go back one step in the SYSTEM SETUP procedure. When you are using your DVD menu screen this button acts the same as the DVD player's "RETURN" button. When you are using cable tuners, satellite tuners or digital TV tuners this button will either exit you from the menu screen or act like a "RETURN" button above, depending on the maker of the unit.

⑱ INPUT button

Press to select an input source. The button will cycle through all the possible sources.

⑲ VOLUME (+/–) buttons

Use to raise or lower the volume of the receiver.

⑳ MIDNIGHT button

Switches the MIDNIGHT listening mode on or off (for all modes except THX CINEMA and MULTI CH IN).

㉑ MUTE button

Press to mute or restore the volume.

㉒ MULTI CH INPUT button

Use this button to select the component you have hooked up to the MULTI CH IN terminals (for example, a DVD-Audio player).

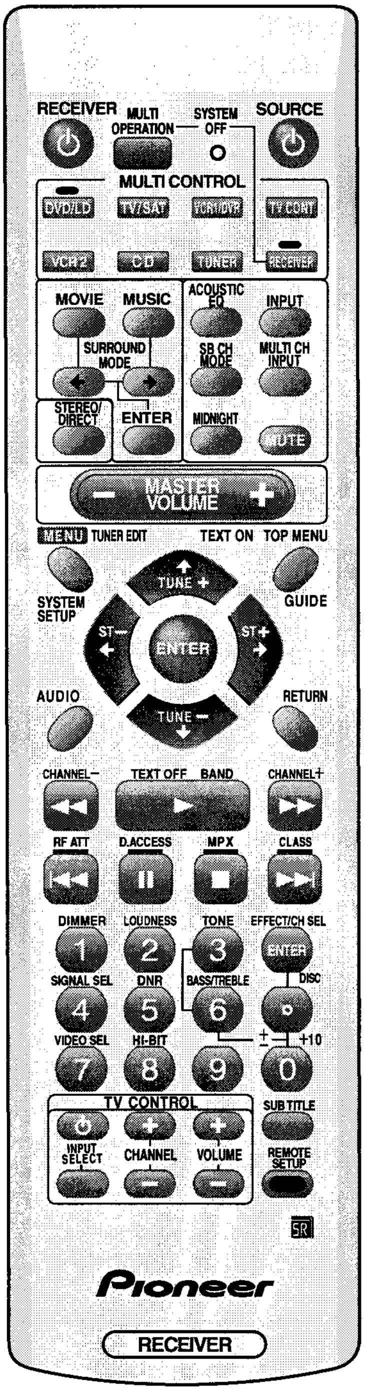
㉓ ACOUSTIC EQ button

Press to switch on/off and select the type of acoustic calibration EQ.

㉔ REMOTE SETUP button.

Use to customize the remote control functions and the remote control itself.

VSX-D1011 : AXD7329


RECEIVER
MULTI OPERATION
SYSTEM OFF
SOURCE
MULTI CONTROL
DVD/LD
TV/SAT
VCR1/DVR
TV CONT
VCR 2
CD
TUNER
RECEIVER
MOVIE
MUSIC
ACOUSTIC EQ
INPUT
SURROUND MODE
SB CH MODE
MULTI CH INPUT
STEREO/ DIRECT
ENTER
MIDNIGHT
MUTE
MASTER VOLUME
–
+
MENU
TUNER EDIT
TEXT ON
TOP MENU
TUNE +
SYSTEM SETUP
GUIDE
ST–
ENTER
ST+
AUDIO
RETURN
TUNE –
CHANNEL–
TEXT OFF
BAND
CHANNEL+
RF ATT
D.ACCESS
MPX
CLASS
DIMMER
LOUDNESS
TONE
EFFECT/CH SEL
1
2
3
ENTER
SIGNAL SEL
DNR
BASS/TREBLE
DISC
4
5
6
±
+10
VIDEO SEL
HI-BIT
7
8
9
0
TV CONTROL
SUB TITLE
INPUT SELECT
CHANNEL
VOLUME
REMOTE SETUP
SR
Pioneer
RECEIVER

PION-06091

Pioneer *sound.vision.soul*

Service Manual

ORDER NO.
RRV2693

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-D2011-G
VSX-D1011-K
VSX-D1011-G

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model			Power Requirement	The voltage can be converted by the following method.
	VSX-D2011-G	VSX-D1011-K	VSX-D1011-G		
FXJI	○	○	○	AC110V/120-127V/220V/230-240V	With the voltage selector
NKXJI	–	–	○	AC220V	———

- **This service manual should be used together with the following manual(s):**

Model No.	Order No.	Remarks
VSX-D2011-S/HYXJI VSX-D1011-K/HYXJI	RRV2661	

CONTENTS

1. CONTRAST OF MISCELLANEOUS PARTS 2
2. PCB CONNECTION DIAGRAM 7
3. SCHEMATIC DIAGRAM 8

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan
PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936
© PIONEER CORPORATION 2002

T – ZZK OCT. 2002

1. CONTRAST OF MISCELLANEOUS PARTS

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on product are used for disassembly.*
- *Reference Nos. indicate the pages and Nos. in the service manual for the base model.*
- *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω → 56×10^1 → 561 .... RD1/4PU $\boxed{5}\boxed{6}\boxed{1}$ *J*
47k Ω → 47×10^3 → 473 .... RD1/4PU $\boxed{4}\boxed{7}\boxed{3}$ *J*
0.5 Ω → R50 .... RN2H $\boxed{R}\boxed{5}\boxed{0}$ *K*
1 Ω → 1R0 .... RS1P $\boxed{1}\boxed{R}\boxed{0}$ *K*

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω → 562×10^1 → 5621 .... RN1/4PC $\boxed{5}\boxed{6}\boxed{2}\boxed{1}$ *F*

■ CONTRAST TABLE

VSX-D2011-G/FXJI and VSX-D2011-S/HYXJI are constructed the same except for the following :

Ref. No.	Mark	Symbol and Description	Part No.		Remarks
			VSX-D2011-S /HYXJI	VSX-D2011-G /FXJI	
		PCB ASSEMBLIES			
	NSP	MAIN ASSY	AWK7737	AWK7744	
P11- 7		└ MAIN CONTROL ASSY	AWX7997	AWX8014	
	NSP	REGULATOR ASSY	AWK7738	AWK7746	
P9- 1		├ PRIMARY ASSY	AWX7998	AWX7987	
P9- 8		├ TRANS 1 ASSY	AWX7969	Not used	
		└ VOL-SEL ASSY	Not used	AWX8019	No. 1
P11- 8		FM/AM TUNER MODULE	AXQ7232	XXQ3003	
		PACKING SECTION			
P7- 6	NSP	Warranty Card	ARY7022	Not used	
P7-11	NSP	Alkaline Dry Cell Battery (LR6/AA)	VEM1021	VEM1023	
P7-16		Packing Case	AHD8079	AHD8076	
P7-17		Operating Instructions (French)	ARC7388	Not used	
P7-18		Operating Instructions (German)	ARC7389	Not used	
P7-19		Operating Instructions (Italian)	ARC7390	Not used	
P7-21		Operating Instructions (Dutch)	ARC7392	Not used	
		Operating Instructions (Chinese)	Not used	ARC7403	
		Sub Instructions (English/Spanish/Chinese)	Not used	ARH7071	
	⚠	AC Power Cord	Not used	ADG7053	Accessories
	⚠	AC Power Cord	Not used	ADG7071	Accessories
		J Shape Plug	Not used	AKX7008	Accessories
	⚠	AC Plug Adapter	Not used	AKX7011	Accessories
		Caution Card SD SB	Not used	ARM7063	
		Caution Card SB	Not used	ARM7064	
		Caution Card 220V	Not used	ARR7019	

Ref. No.	Mark	Symbol and Description	Part No.		Remarks
			VSX-D2011-S /HYXJI	VSX-D2011-G /FXJI	
		EXTERIOR SECTION			
P9-14		Bonnet Case	AZN7899	AZN7898	
P9-21	⚠	FU1 Fuse (T4A)	REK-106	Not used	
P9-21	⚠	FU1 Fuse (10A)	Not used	DEK1045	
P9-31	⚠	Power Transformer (AC220-230V)	ATS7329	Not used	
P9-31	⚠	Power Transformer (AC110V/120-127V/220-230V/240V)	Not used	ATS7330	
P9-43	NSP	Wire Saddle	DEC1450	Not used	
P9-58		UL Tube	ADN7007	Not used	
P9-58		Glass Tube	Not used	ADN7009	
P9-60		Bonnet Sheet	AEB7265	Not used	
P9-61	NSP	Fuse Card	AAX7099	AAX7970	
P9-63		Spacer Circle	AEC7330	Not used	
P9-64		FMEA Spacer	AEC7446	Not used	
	⚠	FU2, FU3 Fuse (T5A)	Not used	REK-107	No. 2
		Label (TAIWAN)	Not used	ARW7196	No. 3
	NSP	SISIR Label	Not used	AAX7962	No. 4
	NSP	EMC Label	Not used	AAX7967	No. 8
		REAR PANEL SECTION			
P11-11		Rear Panel	ANC8064	ANC8065	
P11-12		Cord Stopper	CM-22B	Not used	
P11-13	⚠	AC Power Cord	VDG1080	Not used	
	⚠	AC Inlet Assy	Not used	ADX7395	No. 5
	⚠	Voltage Selector	Not used	AKX-507	No. 6
		Screw	Not used	CBZ30P080FZK	No. 7
		FRONT PANEL SECTION			
P15- 8		Door	ANB7280	ANB7279	
P15-10		Door Stay	AAH7097	AAH7096	
P15-13		Door Hinge L	AMR7424	AMR7422	
P15-14		Door Hinge R	AMR7425	AMR7423	
P15-19		Panel Base	AMB7820	AMB7819	
P15-22		Rotary Knob L	AAA7017	AAA7016	
P15-23		D. Sheet	AAK8023	AAK8021	
P15-24		Window	AAK8034	AAK8033	
P15-25		Pioneer Badge	VAM1124	PAM1377	
P15-26		F. Panel	ANB7283	ANB7274	
P15-41		Power Button	AAD7675	AAD7674	

Notes :
- The numbers in the remarks column correspond to the numbers on the " EXPLODED VIEWS ".
- For PCB ASSEMBLIES, Refer to "CONTRAST OF PCB ASSEMBLIES", "PCB PARTS LIST", "2. PCB CONNECTION DIAGRAM" and "3. SCHEMATIC DIAGRAM".

VSX-D1011-K/FXJI, VSX-D1011-G/FXJI, VSX-D1011-G/NKXJI and VSX-D1011-K/HYXJI are constructed the same except for the following :

Ref. No.	Mark	Symbol and Description	Part No.				Remarks
			VSX-D1011-K /HYXJI	VSX-D1011-K /FXJI	VSX-D1011-G /FXJI	VSX-D1011-G /NKXJI	
		PCB ASSEMBLIES					
	NSP	MAIN ASSY	AWK7747	AWK7741	AWK7741	AWK7741	
P11- 7		└ MAIN CONTROL ASSY	AWX8010	AWX8012	AWX8012	AWX8012	
	NSP	REGULATOR ASSY	AWK7738	AWK7746	AWK7746	AWK7748	
P9- 1		├ PRIMARY ASSY	AWX7998	AWX7987	AWX7987	AWX7988	
P9- 8		├ TRANS 1 ASSY	AWX7969	Not used	Not used	Not used	
		└ VOL-SEL ASSY	Not used	AWX8019	AWX8019	Not used	No. 1
P11- 8		FM/AM TUNER MODULE	AXQ7232	XXQ3003	XXQ3003	XXQ3003	
		PACKING SECTION					
P7- 5		Caution Sheet SP	ARM7056	ARM7056	ARM7056	ARM7059	
P7- 6	NSP	Warranty Card	ARY7022	Not used	Not used	Not used	
P7- 7		Operating Instructions (English)	ARB7264	ARB7264	ARB7264	Not used	
P7-11	NSP	Alkaline Dry Cell Battery (LR6/AA)	VEM1021	VEM1023	VEM1023	VEM1023	
P7-16		Packing Case	AHD8080	AHD8078	AHD8077	AHD8075	
P7-17		Operating Instructions (French)	ARC7395	Not used	Not used	Not used	
P7-18		Operating Instructions (German)	ARC7396	Not used	Not used	Not used	
P7-19		Operating Instructions (Italian)	ARC7397	Not used	Not used	Not used	
P7-20		Operating Instructions (Spanish)	ARC7398	ARC7398	ARC7398	Not used	
P7-21		Operating Instructions (Dutch)	ARC7399	Not used	Not used	Not used	
		Operating Instructions (Chinese)	Not used	ARC7405	ARC7405	Not used	
		Operating Instructions (Korea)	Not used	Not used	Not used	ARC7450	
		Sub Instructions (English/Spanish/Chinese)	Not used	ARH7071	ARH7071	Not used	
	⚠	AC Power Cord	Not used	ADG7053	ADG7053	Not used	Accessories
	⚠	AC Power Cord	Not used	Not used	ADG7071	Not used	Accessories
		J Shape Plug	Not used	AKX7008	AKX7008	Not used	Accessories
	⚠	AC Plug Adapter	Not used	AKX7011	AKX7011	Not used	Accessories
		Caution Card SD SB	Not used	ARM7063	ARM7063	Not used	
		Caution Card SB	Not used	Not used	ARM7064	Not used	
		Caution Card 220V	Not used	ARR7019	ARR7019	Not used	
		EXTERIOR SECTION					
P9-14		Bonnet Case	AZN7897	AZN7897	AZN7898	AZN7898	
P9-21	⚠	FU1 Fuse (T4A)	REK-106	Not used	Not used	Not used	
P9-21	⚠	FU1 Fuse (10A)	Not used	DEK1045	DEK1045	Not used	
P9-21	⚠	FU1 Fuse (T5A)	Not used	Not used	Not used	REK107	
P9-31	⚠	Power Transformer (AC220-230V)	ATS7329	Not used	Not used	Not used	
P9-31	⚠	Power Transformer (AC110V/120-127V/220-230V/240V)	Not used	ATS7330	ATS7330	ATS7330	
P9-43	NSP	Wire Saddle	DEC1450	Not used	Not used	Not used	
P9-51		Screw	BBZ40P080FZK	BBZ40P080FZK	BBZ40P080FCC	BBZ40P080FCC	
P9-58		UL Tube	ADN7007	Not used	Not used	ADN7008	
P9-58		Glass Tube	Not used	ADN7009	ADN7009	Not used	
P9-61	NSP	Fuse Card	AAX7099	AAX7970	AAX7970	AAX7098	
P9-64		FMEA Spacer	AEC7446	Not used	Not used	Not used	
	⚠	FU2, FU3 Fuse (T5A)	Not used	REK-107	REK-107	Not used	No. 2
		Label (TAIWAN)	Not used	ARW7196	ARW7196	Not used	No. 3
		REAR PANEL SECTION					
P11-11		Rear Panel	ANC8088	ANC8095	ANC8092	ANC8089	
P11-12		Cord Stopper	CM-22B	Not used	Not used	CM-22B	
P11-13	⚠	AC Power Cord	VDG1080	Not used	Not used	VDG1086	
	⚠	AC Inlet Assy	Not used	ADX7395	ADX7395	Not used	No. 5
	⚠	Voltage Selector	Not used	AKX-507	AKX-507	Not used	No. 6
		Screw	Not used	CBZ30P080FZK	CBZ30P080FZK	Not used	No. 7
	NSP	EMC Label	Not used	Not used	AAX7967	Not used	No. 8
	NSP	KTL Label	Not used	Not used	Not used	AAX7969	No. 9
	NSP	SISIR Label	Not used	AAX7963	AAX7963	Not used	No. 4

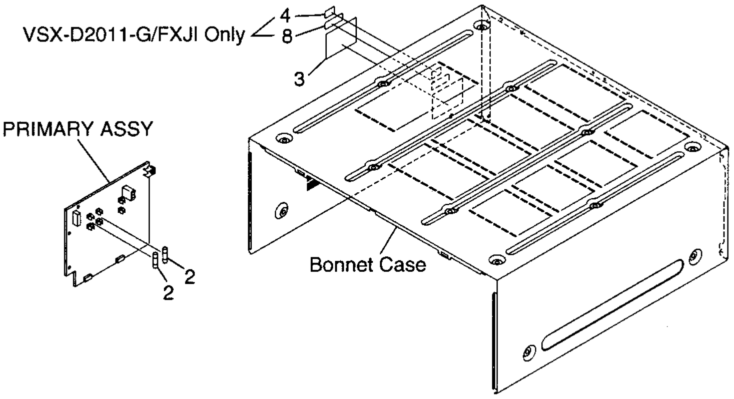
Ref. No.	Mark	Symbol and Description	Part No.				Remarks
			VSX-D1011-K /HYXJI	VSX-D1011-K /FXJI	VSX-D1011-G /FXJI	VSX-D1011-G /NKXJI	
		FRONT PANEL SECTION					
P15- 8		Door	ANB7275	ANB7275	ANB7279	ANB7279	
P15-10		Door Stay	AAH7089	AAH7089	AAH7096	AAH7096	
P15-13		Door Hinge L	AMR7386	AMR7386	AMR7422	AMR7422	
P15-14		Door Hinge R	AMR7387	AMR7387	AMR7423	AMR7423	
P15-18		FL Sheet	Not used	Not used	AAK7956	AAK7956	
P15-19		Panel Base	AMB7803	AMB7803	AMB7819	AMB7819	
P15-20		Cushion Circle	AED7044	AED7044	AED7045	AED7045	
P15-22		VOL Knob	AAB7249	AAB7249	Not used	Not used	
P15-22		Rotary Knob L	Not used	Not used	AAA7016	AAA7016	
P15-23		D. Sheet	AAK8024	AAK8020	AAK8022	AAK8022	
P15-24		Window	AAK8071	AAK8071	AAK8035	AAK8035	
P15-25		Pioneer Badge	AAN7218	AAN7218	PAM1377	PAM1377	
P15-26		F. Panel	ANB7284	ANB7281	ANB7282	ANB7282	
P15-41		Power Button	AAD7647	AAD7647	AAD7674	AAD7674	

Notes : ● The numbers in the remarks column correspond to the numbers on the " EXPLODED VIEWS ".

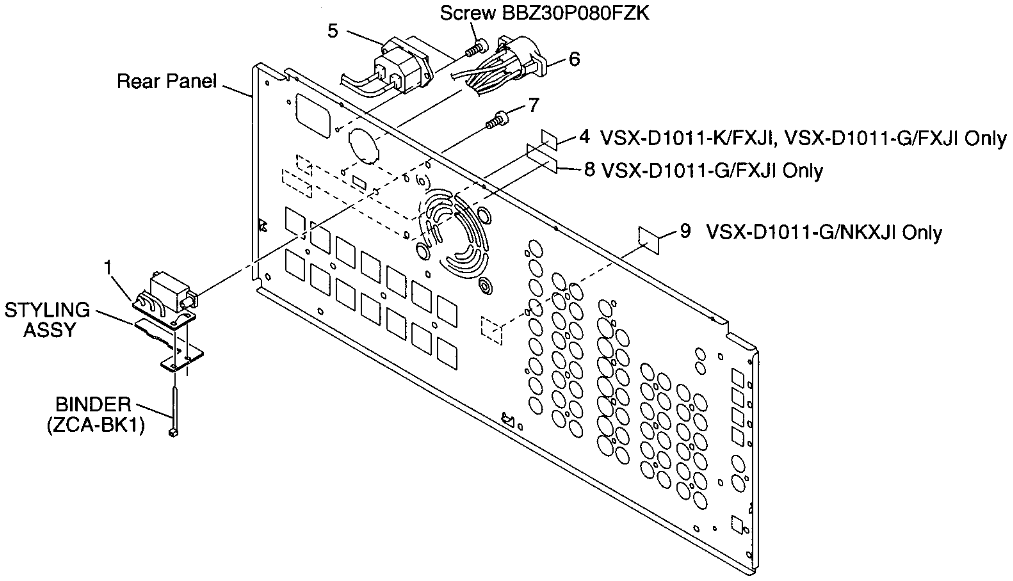
● For PCB ASSEMBLIES, Refer to "CONTRAST OF PCB ASSEMBLIES", "PCB PARTS LIST", "2. PCB CONNECTION DIAGRAM" and "3. SCHEMATIC DIAGRAM".

■ EXPLODED VIEWS (FXJI TYPE)

■ EXTERIOR SECTION


4
VSX-D2011-G/FXJI Only
8
3
PRIMARY ASSY
2
2
Bonnet Case

■ REAR PANEL SECTION


Screw BBZ30P080FZK
5
6
Rear Panel
7
4 VSX-D1011-K/FXJI, VSX-D1011-G/FXJI Only
8 VSX-D1011-G/FXJI Only
9 VSX-D1011-G/NKXJI Only
1
STYLING ASSY
BINDER (ZCA-BK1)

■ CONTRAST OF PCB ASSEMBLIES

AF FM/AM TUNER MODULE

XXQ3003 and AXQ7232 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AXQ7232	XXQ3003	
	C216, C217	CKSRYB103K50	CKSRYB123K50	
	R218, R219	RS1/16S681J	RS1/16S102J	

KF MAIN CONTROL ASSY

AWX8014, AWX8012 and AWX7997 are constructed the same except for the following :

Mark	Symbol and Description	Part No.			Remarks
		AWX7997	AWX8014	AWX8012	
	IC651	BU1923F	Not used	Not used	
	Q101, Q102	2SC3326	2SC3326	Not used	
	Q103	DTA124EK	DTA124EK	Not used	
	Q651	2SA1037K	Not used	Not used	
	Q652	DTC143EK	Not used	Not used	
	Q653	2SC2412K	Not used	Not used	
	D601	UDZ11B	UDZS11B	UDZS11B	
	L651	LFCA2R2J	Not used	Not used	
	C139, C140	CCSRCH470J50	CCSRCH470J50	Not used	
	C103–C112, C115, C116	CCSRCH221J50	Not used	Not used	
	C113, C114	CCSRCH101J50	Not used	Not used	
	C117, C118	CCSRCH470J50	Not used	Not used	
	C651, C652	CCSRCH270J50	Not used	Not used	
	C653	CKSRYB102K50	Not used	Not used	
	C654	CEAT101M10	Not used	Not used	
	C655	CEAT2R2M50	Not used	Not used	
	C656	CKSRYB472K50	Not used	Not used	
	C657	CEAT1R0M50	Not used	Not used	
	C658	CKSRYB561K50	Not used	Not used	
	R123, R124	RS1/16S102J	RS1/16S331J	RS1/16S331J	
	R135, R136	RS1/16S912J	RS1/16S912J	RS1/16S0R0J	
	R137, R138	RS1/16S102J	RS1/16S102J	Not used	
	R141, R142	RS1/16S472J	RS1/16S472J	Not used	
	R143	RS1/16S473J	RS1/16S473J	Not used	
	R508	RS1/16S682J	RS1/16S223J	RS1/16S223J	
	R523	Not used	RS1/16S473J	RS1/16S473J	*
	R524	RS1/16S473J	Not used	RS1/16S473J	
	R525	RS1/16S473J	RS1/16S473J	Not used	
	R526	Not used	RS1/16S473J	RS1/16S473J	*
	R652, R671, R672	RS1/16S102J	Not used	Not used	
	R653	RS1/16S473J	Not used	Not used	
	R654	RS1/16S222J	Not used	Not used	
	R655	RS1/16S333J	Not used	Not used	
	R656	RS1/16S104J	Not used	Not used	
	X651 CRYSTAL RESONATOR (4.332MHz)	ASS7004	Not used	Not used	

* Refer to AWX8010 of VSX-D1011-K/HYXJI.

AG F PRIMARY ASSY

AWX7987, AWX7988 and AWX7998 are constructed the same except for the following :

Mark	Symbol and Description	Part No.			Remarks
		AWX7998	AWX7987	AWX7988	
⚠	T2001 STANDBY TRANSFORMER	ATT7040	ATT7041	ATT7041	
	R2002	RD1/2VM101J	Not used	Not used	
	2003 SCREW TERMINAL	Not used	VNE1948	VNE1948	
	H2003–H2006 FUSE CLIP	Not used	AKR7001	Not used	
	CN2005 AC SOCKET 1-P	AKP1034	Not used	Not used	
NSP	J21 BOARD IN JUMPER WIRED	Not used	DB120NB2	Not used	
NSP	J22 BOARD IN JUMPER WIRED	Not used	DB920NB2	Not used	
NSP	J23 BOARD IN JUMPER WIRED	Not used	DB020NB2	Not used	
	J2001 BOARD IN JUMPER WIRED	Not used	DB846EB0	DB846EB0	
NSP	J2002 BOARD IN JUMPER WIRED	Not used	DB316EB0	Not used	
	J2003 BOARD IN JUMPER WIRED	Not used	DB146EB0	Not used	
	J2004 BOARD IN JUMPER WIRED	Not used	Not used	DB146EB0	
	Y14 AWG18 BOARD IN	ADX7419	Not used	Not used	
	Y15 AWG18 BOARD IN	ADX7418	Not used	Not used	

■ PCB PARTS LIST

Mark	No.	Description	Part No.

AH F VOL-SEL ASSY

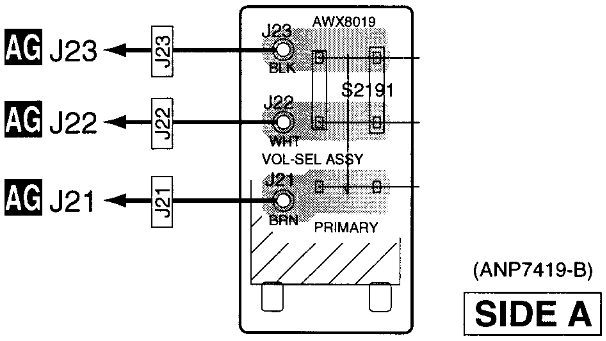
SWITCHES AND RELAYS

Mark	No.	Description	Part No.
⚠	S2191	VOLTAGE SELECTOR	AKX1033

2. PCB CONNECTION DIAGRAM

2.1 VOL-SEL ASSY

AH F VOL-SEL ASSY

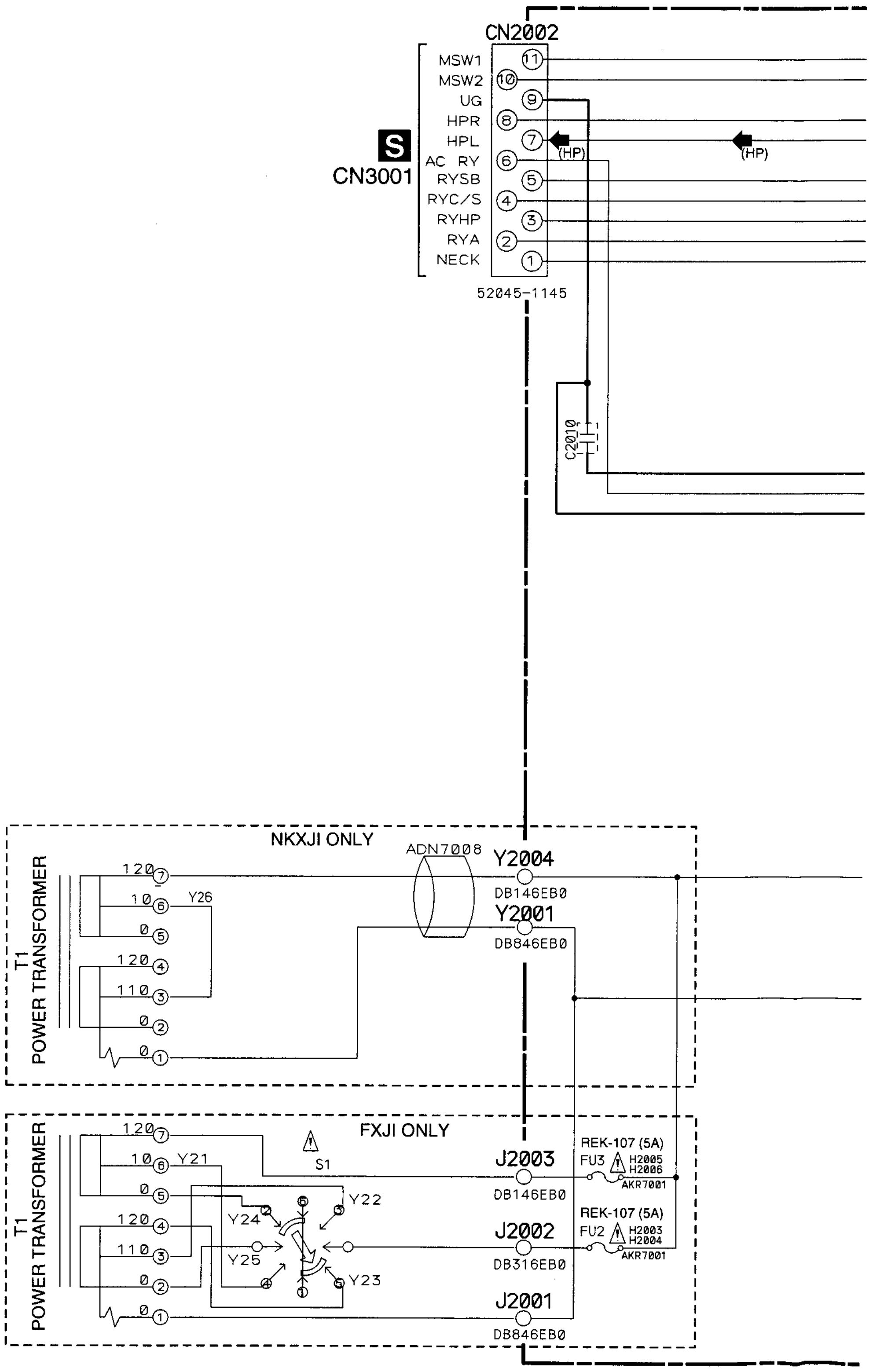


3. SCHEMATIC DIAGRAM

3.1 PRIMARY and VOL-SEL ASSYS

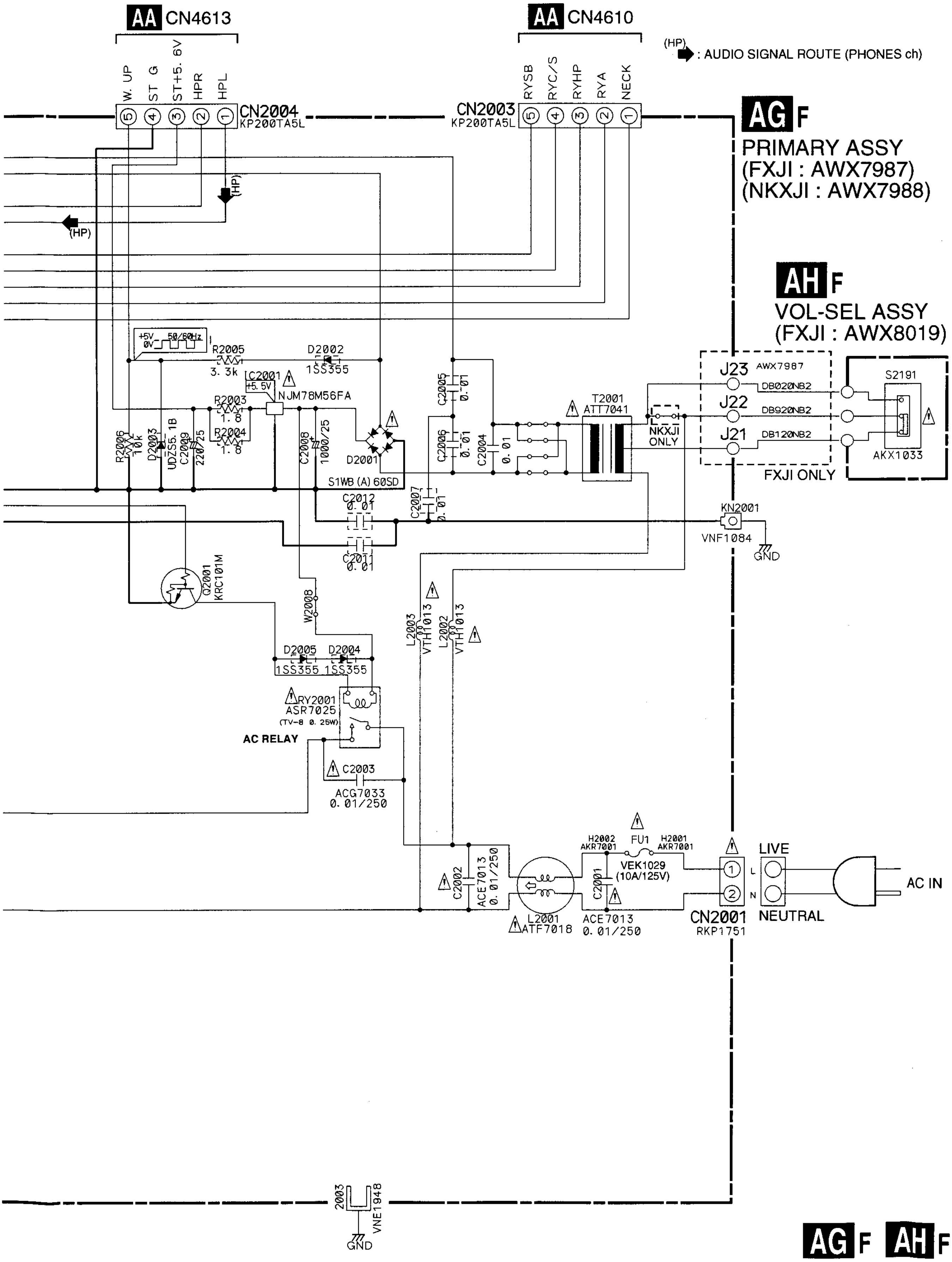
- NOTE FOR FUSE REPLACEMENT

CAUTION -FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE WITH SAME TYPE AND RATINGS ONLY.


S
CN3001
CN2002
MSW1
MSW2
UG
HPR
HPL
AC RY
RYSB
RYC/S
RYHP
RYA
NECK
(HP)
(HP)
52045-1145
C2010
NKXJI ONLY
T1
POWER TRANSFORMER
120
10
0
120
110
0
0
Y26
ADN7008
Y2004
DB146EB0
Y2001
DB846EB0
FXJI ONLY
S1
Y21
Y22
Y23
Y24
Y25
J2003
DB146EB0
J2002
DB316EB0
J2001
DB846EB0
REK-107 (5A)
FU3
H2005
H2006
AKR7001
REK-107 (5A)
FU2
H2003
H2004
AKR7001

AG **F**

Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST"


AA CN4613
AA CN4610
(HP) : AUDIO SIGNAL ROUTE (PHONES ch)
W. UP
ST G
ST+5. 6V
HPR
HPL
CN2004
KP200TA5L
RYSB
RYC/S
RYHP
RYA
NECK
CN2003
KP200TA5L
AG F
PRIMARY ASSY
(FXJI : AWX7987)
(NKXJI : AWX7988)
AH F
VOL-SEL ASSY
(FXJI : AWX8019)
(HP)
(HP)
+5V 50/60Hz
0V
R2005
3. 3k
D2002
1SS355
C2001
+5. 5V
NJM78M56FA
R2003
1. 8
R2004
1. 8
R2006
10k
D2003
UDZS5. 1B
C2009
220/25
C2008
1000/25
D2001
S1WB (A) 60SD
C2005
0. 01
C2006
0. 01
C2004
0. 01
T2001
ATT7041
NKXJI ONLY
J23
AWX7987
DB020NB2
J22
DB920NB2
J21
DB120NB2
S2191
AKX1033
FXJI ONLY
C2012
0. 01
C2007
0. 01
C2011
0. 01
KN2001
VNF1084
GND
Q2001
KRC101M
W2008
L2003
VTH1013
L2002
VTH1013
D2005
D2004
1SS355 1SS355
RY2001
ASR7025
(TV-8 0. 25W)
AC RELAY
C2003
ACG7033
0. 01/250
H2002
AKR7001
FU1
H2001
AKR7001
VEK1029
(10A/125V)
C2002
ACE7013
0. 01/250
C2001
ACE7013
0. 01/250
L2001
ATF7018
CN2001
RKP1751
LIVE
L
N
NEUTRAL
AC IN
2003
VNE1948
GND

AG F AH F

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